



**County Palatine of Chester**

---

**REPORT**

for the Year

**1964**

BY THE

**County  
Medical Officer of Health**

---

**Presented to the  
County Health Committee**

**9th December, 1965**

---

Chester :  
Phillipson and Golder (Printers) Ltd., Frodsham Street.



# **REPORT**

**OF THE**

## **County Medical Officer of Health**

**For the Year ended December 31st, 1964**

---



# INDEX

|                                    |  |  |  |  |  |  | PAGE    |
|------------------------------------|--|--|--|--|--|--|---------|
| Ambulances                         |  |  |  |  |  |  | 75      |
| Ante-Natal Clinics                 |  |  |  |  |  |  | 96      |
| Area                               |  |  |  |  |  |  | 64      |
| Artificial Sunlight                |  |  |  |  |  |  | 110     |
| Atmospheric Pollution              |  |  |  |  |  |  | 187     |
| B.C.G.                             |  |  |  |  |  |  | 82      |
| Births                             |  |  |  |  |  |  | 66, 95  |
| Blind, Welfare of the              |  |  |  |  |  |  | 134     |
| Brucellosis                        |  |  |  |  |  |  | 145     |
| Cancer Education                   |  |  |  |  |  |  | 85      |
| Care and After-care                |  |  |  |  |  |  | 77      |
| Census, 1961                       |  |  |  |  |  |  | 64      |
| Centres, Welfare                   |  |  |  |  |  |  | 100     |
| Cerebral Palsy Clinics             |  |  |  |  |  |  | 111     |
| Chiropody Service                  |  |  |  |  |  |  | 88      |
| Child Guidance                     |  |  |  |  |  |  | 111     |
| Children "At Risk"                 |  |  |  |  |  |  | 105     |
| Congenital Malformations           |  |  |  |  |  |  | 105     |
| Cripples' Help Society, Manchester |  |  |  |  |  |  | 141     |
| Daily Minders                      |  |  |  |  |  |  | 109     |
| Day Nurseries                      |  |  |  |  |  |  | 62, 109 |
| Deaf, Welfare of the               |  |  |  |  |  |  | 136     |
| Deaths                             |  |  |  |  |  |  | 66      |
| Dental Care                        |  |  |  |  |  |  | 107     |
| Disabled Persons, Homes for        |  |  |  |  |  |  | 143     |
| Domestic Help                      |  |  |  |  |  |  | 130     |
| Fluoridation of Water              |  |  |  |  |  |  | 182     |
| Food and Drugs Acts                |  |  |  |  |  |  | 144     |
| Foods, Infant                      |  |  |  |  |  |  | 104     |
| Foods, Welfare                     |  |  |  |  |  |  | 104     |
| Handicapped Persons                |  |  |  |  |  |  | 134     |
| Health Education                   |  |  |  |  |  |  | 84      |
| Health Visitors                    |  |  |  |  |  |  | 16, 95  |
| Hearing, and Speech                |  |  |  |  |  |  | 112     |
| Home Nursing                       |  |  |  |  |  |  | 49, 132 |
| Home Safety                        |  |  |  |  |  |  | 86      |
| Illegitimate Children              |  |  |  |  |  |  | 66      |
| Illness, Prevention of             |  |  |  |  |  |  | 77      |
| Infantile Mortality                |  |  |  |  |  |  | 66      |
| Infectious Diseases                |  |  |  |  |  |  | 91      |
| Inhalational Analgesia             |  |  |  |  |  |  | 118     |
| Laboratory, Public Health          |  |  |  |  |  |  | 164     |
| Mass Miniature Radiography         |  |  |  |  |  |  | 81      |
| Maternal Mortality                 |  |  |  |  |  |  | 96      |

|                              | PAGE    |
|------------------------------|---------|
| Meals on Wheels              | 143     |
| Mental Health                | 119     |
| Mental Welfare Officers      | 61, 121 |
| Midwives                     | 57, 117 |
| Midwives Clinics             | 98      |
| Milk Supply                  | 144     |
| Ministry of Health Enquiries | 186     |
| Mothers and Young Children   | 95      |
| Nursing Equipment            | 86      |
| Nursing Homes                | 110     |
| Old People, Homes for        | 143     |
| Orthopædic Scheme            | 110     |
| Perinatal Deaths             | 67      |
| Pethidine                    | 118     |
| Phenylketonuria              | 111     |
| Poliomyelitis Vaccination    | 74      |
| Population                   | 64, 71  |
| Post-Natal Clinics           | 96      |
| Premature Infants            | 95      |
| Preparation Classes          | 99      |
| Private Nurseries            | 109     |
| Property, Alterations to     | 139     |
| Puerperal Pyrexia            | 96      |
| Rateable Value               | 64      |
| Recuperative Convalescence   | 87      |
| Sewerage and Sewage Disposal | 184     |
| School Swimming Pools        | 179     |
| Sitters-in                   | 88      |
| Special Laundry              | 88      |
| Staff                        | 13      |
| Statistics, Tables of        | 190     |
| Stillbirths                  | 66      |
| Thalidomide Babies           | 110     |
| Training Centres             | 62, 127 |
| Tuberculosis                 | 77      |
| Unmarried Mothers            | 108     |
| Vaccination and Immunisation | 71      |
| Venereal Disease             | 86      |
| Young Children's Clinics     | 105     |
| Water Supply                 | 182     |
| Whooping Cough Immunisation  | 72      |
| Wrenbury Hall                | 77      |
| Zymotic Deaths               | 69      |

# Introduction

*To the Chairman and Members  
of the County Health Committee*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Annual Report on the county health services for the year 1964.

The population of the administrative county rose by 20,000 between mid-year 1963 and mid-year 1964 according to the Registrar General's estimate. It is now 981,130. The largest increases occurred in Cheadle and Gatley, Hazel Grove, Wilmslow, Winsford, Hyde, Ellesmere Port and Wirral U.D.

The birth rate was even higher than in the previous year, 18.6 per thousand population. The actual number of births was 18,211, 600 more than in the previous year. The infantile mortality rate, 18.1 per thousand live births, although not the lowest for any year, is considered to be very satisfactory. Stillbirths, 15.0 per thousand live and still births, were the lowest figure on record for the county and this low rate bears witness to the high standard of ante-natal care in Cheshire observed by obstetricians, general practitioners and midwives.

Each year since the figures for perinatal deaths have been included in this report, there has been a steady diminution in the rate. In 1964, perinatal deaths (stillbirths and deaths in the first week of life) totalled 479, giving a perinatal death rate of 25.91 per thousand live and still births. The proportion of illegitimate births to the whole, was 4.36% with an infantile mortality rate of 17.6, a rate which is considered to be low. In this connection the work of the moral welfare workers, in respect of whom the County Council now pay a considerably increased grant, must be commended.

Deaths from cancer of the lung and bronchi are still rising and 416 males and 66 females died from these causes. A larger number of men and women died from coronary thrombosis than in any previous year, and the total deaths from this cause numbered 2,305, of whom 527 males and 160 females died between the ages of 45 and 64 years. Deaths from coronary thrombosis in this age group constituted 32.3% of the total deaths of males and 16% of females. The ratio of male to female deaths from all causes in the age group 45 to 64 years was 1.62 males to one female.

By far the commonest cause of death amongst youths and young men aged between 15 and 24 years was motor accidents. 69 deaths occurred in this age group, of which 33 were sustained in motor accidents, a percentage of no less than 47.8%.

It was sad to say goodbye last autumn, to Dr. B. M. Butters who had been for so many years in charge of the maternal and child welfare and nursing sections of the department. She leaves behind her a wonderful

record of work, carried out always in a most human manner. Dr. J. Hatton, who retired last October as Divisional Medical Officer for Deeside, was the last medical officer of health of Cheshire county districts to be in post who was serving the Authority at the introduction of the National Health Service in 1948. He will be greatly missed for his wide knowledge of medical subjects, particularly in epidemiology. Reference must also be made to the retirement of Dr. W. E. C. Thomas of Stalybridge, who had been in charge of ante-natal work in that area for 35 years.

New ambulance stations came into operation at Northwich, Hazel Grove, Grappenhall and Knutsford, adult training centres were opened at Altrincham, Northwich and Crewe, the Crewe and Northwich junior training centres started work at the same time as the adult training centres, and new county clinic centres were established at Stalybridge (including divisional offices), Hazel Grove (including divisional offices and group practice centre), Pensby, Heald Green, Alsager, Adswold, Sale (Bodmin Road), Upton (Chester R.D.) and Wilmslow. The Hyde clinic centre, now in course of erection, includes a handicapped persons' centre and the divisional office, an interesting scheme has been organised at Alsager which will provide for a handicapped persons' centre, also accommodation for the Welfare Department and Civil Defence in the same building.

When new sites for county clinics are under consideration, an endeavour is made, in co-operation with the National Health Executive Council, to ascertain the needs of the local general practitioners for surgery accommodation.

The Ministry of Health building notes have been used for all new buildings and have been found satisfactory, although it is considered that more space could well be provided for circulation and for storage purposes.

One thing which is strikingly evident throughout the county is the care taken by cleaning staff and the high standard of their work. The cleaners take a pride in the cleanliness and appearance of the interior of the clinics.

In general, increased use was made by members of the public of all county health services. The attendances at doctors' ante-natal clinics increased by 10% when compared with 1963. Attendances at midwives' clinics rose by 9%, at preparation classes in the ante-natal period by 13%, at child welfare centres by 6.4% and at young children's clinics by 7%.

Young children's clinics are established for the benefit of children between the age of 2 and 5 years and children attend there by special appointment. These clinics are designed to provide a means of close supervision of all young children showing any handicap. Preparation of the register of children "at risk" has proceeded and all infants where family and medical circumstances indicate that they may be more liable to handicaps than other children are kept under close surveillance and form the bulk of children attending at the young children's clinics.

This work is considered to be of such great importance as a preventive measure, that it has been made the special responsibility of the Senior Assistant County Medical Officer. Additional child welfare centres were set up at Ellesmere Port (Grace Road), Hyde (Hattersley and Gee Cross), Winsford (Over), Tarvin R.D. (Waverton) and Bredbury (Woodley) to meet the need of increasing population. Additional midwives' clinics were established at Adswold (Cheadle and Gatley U.D.), Altrincham, Hazel Grove, Heald Green, Bebington, Sale (Bodmin Road) and Upton (Chester P.D.), a new doctor's ante-natal clinic at Hattersley, and preparation classes at Frodsham and Heald Green.

One of the most interesting developments during the year has been the great increase in private day nurseries, mostly catering for children between the ages of 3 and 5 years. At the end of 1964 there were 82 such nurseries, providing for 1,210 children. A number of the persons organising the nurseries are members of the National Association of Pre-School Play Groups. As is usual when services are organised by private groups, these nurseries are not spread evenly over the county, but are mostly in Wirral, Cheadle, Wilmslow and other residential areas of the county. Few, or none, have been established in the industrial areas. There are certain areas of the county, notably Crewe, Mid-Cheshire and the industrial north-eastern districts, where day nurseries would be a most useful social provision. Divisional Health Committees have been asked to examine this problem so far as it affects their own localities.

As has been mentioned before in these annual reports, it is found that residents in the new overspill areas require more support from the county health services than other parts of the county and this need has been provided for by health department staff being employed in these areas in a higher ratio than elsewhere. One interesting fact is that with the building of Hattersley, the number on the tuberculosis register at Hyde has been increased by 25%, although the population of Hattersley was not, at the time of making this observation, nearly one-quarter of the population of Hyde.

Help was afforded to Family Planning Associations as in previous years. In this connection an interesting experiment is being carried out at Hyde, in co-operation with the Manchester Family Planning Association, of domiciliary visiting instead of using clinics.

Throughout the county close co-operation is maintained with general practitioners. The group practice surgery at Hazel Grove is adjacent to the clinic and divisional offices, the proposed group practice at Hattersley is planned, and to a certain extent financially supported, by the County Council, and county staff co-operate whole-heartedly with the new system of group practice organised in Cheadle and Gatley. Discussions have taken place with general practitioners with a view to an informal "attachment" of health visitors so far as this is possible, and it is hoped that a considerable part of Cheshire will be covered by these arrangements in the very near future.

Since the functions of the county health services amongst handicapped persons were devolved upon Divisional Medical Officers, a most gratifying development of these services has been observed. Clinics for elderly persons have been established at Hazel Grove and Congleton, whilst others are being planned, with a view to the early recognition of conditions which, if neglected, could result in eventual disablement, and social centres for the physically handicapped have been set up in 10 health divisions, at many of which the persons are encouraged to engage in occupations. One has been struck by the happy atmosphere at centres where occupational work is carried on, handicapped people who thought that they could only do the most elementary types of handwork are now finding that they are capable of doing much better work and have developed enormously in their confidence and happiness as a result. To take one example, a chronic arthritic who would only knit dishcloths, and this she complained was too much for her, has now completed a small basket, and she is so delighted with her achievement that she announced at the centre "No looking back now and just knitting dishcloths again". The specially adapted handicapped persons' vehicle has been found so useful that two more are now on order and will soon be delivered. Outings are arranged in connection with the handicapped persons' centre which have enabled even the most severely physically handicapped people to go to the seaside and other places, though previously they had been confined to their homes.

The work of the Health Department amongst elderly people is only one part of all the county council and voluntary activities designed to promote the happiness and welfare of elderly people living in their own homes. Mention must be made of the results of co-operation between the county Welfare Department and county district councils, resulting in provision of flatlets and bungalows with supervisory staff, a system of communication and various communal activities. By the end of 1964, 800 special housing units for the elderly had been provided by county district councils and an additional 1,600 units were either planned or actually under construction. As an instance of voluntary activities, the Meals on Wheels Service increased the number of meals supplied by 22%. My thanks are due to the Women's Voluntary Service, and indeed all the voluntary agencies which give such assistance to the Health Department in its work amongst elderly people.

The number of elderly patients and chronic sick nursed by the county nursing service again increased during 1964. It was necessary to increase the nursing staff (including midwives) from 257 to 269. A successful venture has been the establishment of a Queen's Institute nursing courses for district nurses and district nurse midwives. Three such courses have been held and all the 24 nurses who have attended the courses were successful at their assessment at the end of the period of tuition and were granted Queen's Nurses badges and certificates.

The work of Mental Welfare Officers had developed to such an extent that the establishment of mental welfare officers was increased from 34 to 43. Two mental welfare officers were seconded for courses of training leading to the certificate in social work. The great value of these courses has been evident when the trained mental welfare officers have returned to their work and the appreciation of psychiatrists and general practitioners is shown by their constantly increasing requests for visits, case reports and help from mental welfare officers all over the county. A therapeutic social club, in co-operation with psychiatric staff at Parkside Hospital has been established at Macclesfield. At each adult training centre there is a voluntary association interested in the work being done, and these associations are allowed to use the county premises for their meetings. There has been no difficulty in obtaining contract work for the adult training centres and the money derived from this work after the cost of raw materials has been met is divided, 75% to the trainees, 15% to the County Council and 10% to be retained in the training centre as an amenities fund for the centre. Care is taken at all times that contract work does not absorb an undue amount of the trainees' time and energies; social training, training in personal hygiene, physical education, music and movement, games, and for the women, the use of cosmetics, care of the hair, shopping and housecraft all have their share in the curriculum and the effect of these activities is most noticeable very soon after the trainees start to attend the centres. Swimming lessons were organised at the Hyde adult training centre and out of fifteen persons attending the baths, eleven have learned to swim.

It is hoped that recent discussions will eventually enable a branch of the Richmond Fellowship to be established under the auspices of the psychiatric staff at Deva Hospital. The idea is that suitable mentally disordered patients shall proceed to the hostel on discharge from the psychiatric hospital, will be placed in employment whilst living in the hostel, and after a period of rehabilitation lasting six or twelve months, as the case may be, will be better able to adapt themselves to home conditions and strains when the time comes for their discharge. It has been agreed that financial assistance shall be afforded to the Richmond Fellowship in order that they may purchase suitable premises and equip them.

The hostel at Cheadle Royal, occupied by men and women discharged from hospital treatment, but working in the Cheadle Royal rehabilitation centre and sheltered workshop is now receiving residents. This is considered to be an activity which might easily grow, and already good results have accrued from the granting of independence within the framework of Cheadle Royal to mentally disordered men and women who are now fully employed and whose earnings are augmented by county council financial grants.

As with the other activities of the Health Department, more demands are being made on the Ambulance Service, so that it was necessary to

add an additional seven vehicles to the fleet and increase the staff of driver/attendants. The length of the supplementary training courses at the Northwich ambulance station has been extended to three weeks' duration and the experiment has been tried of attaching ambulance driver/attendants to the out-patient departments at Clatterbridge and Crewe Memorial Hospitals. It will take some time to assess the value of this attachment, but there can be no doubt that the training received from the supplementary courses has been of very great value to the service. Requests have been received from a number of other local health authorities for places on the courses and it has been possible to make appropriate arrangements. The consultants, general practitioners and public health officers who, together with the newly appointed ambulance service training officer, give the necessary tuition, have been most enthusiastic and I wish to thank them and the members of the Casualties Union who have taken part in the courses and who have produced such good results. The new M.6 motorway has brought its problems, in particular the need for ambulances to get to any accident in the minimum time so as to keep the motorway clear and avoid a "pile-up". It is a measure of the efficiency of the service that the figure for ambulance driver per patient has again been lowered during 1964.

Much consideration was given to the effect of new housing estates and the increased population of the county on the hospital provision envisaged in the Minister of Health's plan for the development of the hospital service. It is clear that the hospital programme, even when fully implemented, will not completely meet the needs of persons residing in the Sale, Altrincham and Mid-Cheshire areas. The County Council has therefore recommended that a new general hospital be erected in a situation convenient for these areas.

Discussions are being carried out with the County Treasurer regarding the use of computers for certain statistical work carried out in the County Health Department. The three branches which would seem to be most suitable in the first place for the use of the computer are the programme for vaccination and immunisation, the "At Risk" register of infants and statistics of the school health service; a start has indeed already been made in the schools health service.

Until now the taking of cervical smears for cytological examination has been carried out at family planning clinics and by general practitioners. The approval of the Ministry of Health has now been received to this being made a county council service and arrangements are in hand for clinics to begin. It is essential that clinics for the taking of cervical smears shall be conducted in co-operation with general practitioners and that practitioners shall be kept informed of findings regarding their patients.

Duties in connection with the vaccination and immunisation programmes are the responsibility of Divisional Medical Officers. Two Divisional Medical Officers joined a small working party to enquire into the efficiency of a new method of "Jet" injection of B.C.G. vaccine, to

replace the methods now in use. The results of this investigation were published in the British Medical Journal and were decidedly encouraging.

The need and demand for domestic help shows no sign of abating, and this is to be expected when the proportion of elderly people in the community is rising and residential accommodation in hospitals and old persons' homes is still difficult to obtain. It has been found that the present method of health visitors being responsible for the recruitment and supervision of domestic helps in country areas is less economical than the use of specially appointed domestic help supervisors. In order to retain the efficiency of a still growing domestic help service throughout the county, additional supervisors are needed.

Agriculturally Cheshire is one of the largest milk-producing counties in the country, and there are still more than 300 dairy herds in the county from which milk is sold to the public in its raw state. Milk from these herds is regularly sampled to detect the presence of brucella organisms, and whenever a positive sample is found, further sampling of the cows in the herd is carried out to determine the individual cows giving infected milk, so that action can be taken. Although since this work was commenced in 1960 a reduction has occurred in the percentage of milk samples found to be infected, from 7.6% in 1960 to 3.25% in 1963, there was actually a slight increase, to 3.59% during 1964. In spite of our work it must be stated that the risk of brucellosis is very real amongst consumers of raw milk. Brucellosis in human beings is not a notifiable disease, but the department now has knowledge of a total of 130 human cases which have occurred in Cheshire in the last four years. It is thought that the incidence of this disease in human beings is greater than even these figures indicate, and it has been recommended that, as was achieved with bovine tuberculosis, a national scheme for the eventual eradication of brucellosis in cattle should be introduced.

The application of intensive farming methods to animal husbandry during the last few years has brought with it a number of public health problems. Accordingly a working party was set up to investigate these problems, consisting of certain divisional medical officers, the chief public health inspectors of the major rural districts of the county, together with the county health inspector who has acted as secretary. A report is being compiled by the working party and results of its investigations and conclusions will be published.

My thanks are due to the general practitioners of Cheshire and to the administrators and persons employed in the hospital services and by the Executive Council for their co-operation during the past year. It would be true to say that this co-operation becomes more evident year by year.

I wish to thank the Chairman and Members of the County Health Committee and of the Divisional Health Committees for their constant help and support. I also thank the Clerk of the County Council, the

County Treasurer, County Architect and the Heads of all county departments for the co-operation and assistance which they have rendered to me on all occasions. As regards the staff of the County Health Department, increased duties have been laid upon them, to which they have responded with never failing loyalty, and I owe to the whole of the staff of the department, whether professional or lay, my deepest gratitude for the service, keenness and loyalty which they have shown throughout the year.

I beg to remain,

Your obedient servant,

ARNOLD BROWN.

11th October, 1965

## Staff of the Public Health Department

|                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| County Medical Officer of Health and Principal School Medical Officer | Arnold Brown, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Deputy County Medical Officer of Health                               | B. G. Gretton-Watson, M.A., M.B., B.Ch., D.P.H., Barrister-at-Law                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Principal Medical Officer                                             | Kathleen Shaw, M.B., Ch.B., D.C.H., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Senior School Medical Officer                                         | R. Cargill, M.B., Ch.B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| County Psychiatrist                                                   | H. Craig, L.R.C.P. & S., L.R.F.P.S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Senior Medical Officer for Mental Health                              | R. A. Blyth, M.B., Ch.B., M.R.C.S., L.R.C.P.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Senior Assistant Medical Officers                                     | Irene Chesham, M.B., Ch.B., D.P.H.<br>Mary Allison, M.B., Ch.B.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Assistant County Medical Officers                                     | Jessie Anderson, M.B., Ch.B., D.P.H. (part-time).<br>Helen Brass, M.B., B.A.O., B.Ch.<br>Margaret Brook, B.A., M.B., Ch.B.<br>Margaret Crosland, M.B., Ch.B.<br>Aitolia English, M.R.C.S., L.R.C.P., M.B., B.S., D.C.H.<br>Jean Halliwell, M.B., Ch.B., M.R.C.S., L.R.C.P., D.R.C.O.G., D.C.H.<br>Betty Hinchliffe, M.B., Ch.B.<br>Barbara Jones, M.B., Ch.B.<br>Cita Kershaw, M.B., Ch.B.<br>Anne Lee, B.A., M.B., B.Ch., B.A.O., D.R.C.O.G.<br>Hilda Levis, M.R.C.S., L.R.C.P., M.B., B.S., D.P.H.<br>Hilda Lloyd, M.R.C.S., L.R.C.P.<br>Marie MacCulloch, M.B., Ch.B. (part-time).<br>Joan McCann, M.B., Ch.B. (part-time).<br>Hazel Meacock, M.B., Ch.B., D.C.H. D.P.H.<br>Dorothy Moody, L.R.C.P., L.R.C.S.I., D.C.H., D.P.H.<br>L. P. Moore, M.A., M.R.C.S., L.R.C.P.<br>W. Snape, M.R.C.S., L.R.C.P.<br>Elizabeth South, M.B., Ch.B. (part-time)<br>Jessie Tough, M.B., Ch.B., D.P.H.<br>Margaret Winton, M.B., Ch.B. |
| Divisional Medical Officers                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Altrincham                                                            | E. H. Gordon, M.D., B.Ch., B.A.O., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Bebington                                                             | H. C. Jennings, M.B., Ch.B., D.Obst., R.C.O.G., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Cheadle and Wilmslow                                                  | J. A. Leitch, M.D., Ch.B., D.C.H., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Crewe                                                                 | D. G. Crawshaw, M.B., M.R.C.S., D.C.H., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Deeside                                                               | D. R. Morris, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Hyde                                                                  | A. S. Darling, M.B., B.Ch., D.C.H., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Macclesfield                                                          | W. R. Plews, L.R.C.P. & S., D.R.C.O.G., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Mid-Cheshire                                                          | F. Seymour, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Nantwich                                                              | R. K. Hay, M.D., B.Ch., B.A.O., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| N. E. Cheshire                                                        | T. W. Brindle, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Runcorn                                                               | J. L. Patterson, M.B., Ch.B., D.P.H.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

Divisional Medical Officers—*continued.*

*Sale and Lymm*

*S. E. Cheshire*

*S. W. Cheshire*

*Stalybridge and Dukinfield*

County Analyst

Dental Surgeons

R. Stalker, M.B., Ch.B., D.P.H.

L. Rich, M.B., Ch.B., M.R.C.O.G., D.P.H.

W. A. Pollitt, M.R.C.S., L.R.C.P., D.P.H.

T. Holme, M.B., Ch.B., D.P.H.

J. G. Sherratt, F.R.I.C.

A. F. Hely, C.B., L.D.S. (Principal)

D. M. Dodd, B.D.S., (Deputy Principal).

A. E. Allen, L.D.S., R.F.P.S.

Edith Andrew, L.D.S.

J. B. Andrew, L.D.S., R.C.S., B.D.S.

J. M. Arany, M.D., L.D.S., R.F.P.S.

Elizabeth R. Brown, L.D.S.

Dorothy Coates, L.D.S.

J. K. Clark, B.D.S.

Beryl Clarkson, B.D.S. (Part-time).

G. H. Craine, B.D.S.

Margaret Davidson, L.D.S.

Margaret Davis, B.D.S. (part-time)

T. P. Dykes, L.D.S. (part-time)

Patricia Gass, L.D.S., R.C.S.

Lorna Fernley, L.D.S., B.Ch.D.

G. J. Hartley, L.D.S.

R. H. Hurst, L.D.S.

H. Jackson, L.D.S.

Lisbeth Kippen, L.D.S., D.P.D.

Irene Kurer, B.D.S., (part-time)

A. N. Leicester, B.D.S.

H. P. Meed, L.D.S.

F. R. Morrey, L.D.S.

W. N. L. Morrey, L.D.S.

Ruth Owen, L.D.S.

D. J. Robinson, L.D.S., R.C.S.

K. V. Shute, L.D.S.

E. J. Taylor, L.D.S.

Margaret Thomson, B.D.S.

Dorothy Walker, L.D.S.

Doreen Wilson, L.D.S. (part-time)

R. S. Wood, L.D.S. (part-time)

Ophthalmic Surgeons

(Part-time)

J. F. Cogan, M.B., Ch.B., F.R.C.S.

J. D. E. Edwards, M.B., Ch.B., D.O.M.S.,  
R.C.P.S.I.

Nora English, M.B., B.Ch., B.A.O., D.O.

D. W. Ellis-Jones, M.B., Ch.B.,  
D.T.M. & H., D.O.

A. Holmes-Smith, M.A., M.B., B.Chir.,  
D.O.M.S.

E. M. Jenkins, M.B., Ch.B., D.P.H.

A. K. Mitra, M.B., D.G.O., D.O.

E. Riley, M.B., Ch.B., D.O.M.S.

Dorothy Simmons, M.B., Ch.B.

Orthopaedic Surgeons

(Part-time)

E. M. Kupfer, M.B., B.S., F.R.C.S.

V. H. Wheble, M.A., B.M., B.Ch., F.R.C.S.

Paediatrician (Part-time)

J. D. Allan, M.D., F.R.C.P.

Ear, Nose and Throat

Surgeons (Part-time)

O. T. Taylor, M.B., Ch.B.

J. M. Kodicek, M.B., B.S., F.R.C.S.,  
L.R.C.P.

R. D. Stride, M.B., Ch.B., F.R.C.S., D.L.O.

|                                              |                                                                                                                                                                                                                                                                              |
|----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chest Physicians</b><br>(Part-time)       | J. Black, M.D., F.R.F.P.S., M.R.C.P.<br>H. N. Bleasdale, M.B., Ch.B.<br>D. J. Caldwell, M.A., M.R.C.P.<br>A. Fleming, M.B., Ch.B., D.P.H.<br>A. C. C. Hughes, M.A., M.D., M.R.C.P.<br>J. Macnamara, M.D., B.Ch., B.A.O.,<br>M.R.C.P.<br>P. B. Woolley, M.B., Ch.B., M.R.C.P. |
| Chief Administrative Assistant               | B. O'Connor, M.A., Barrister-at-Law                                                                                                                                                                                                                                          |
| County Ambulance Officer                     | R. G. Jones                                                                                                                                                                                                                                                                  |
| Deputy County Ambulance<br>Officer           | C. G. Davis                                                                                                                                                                                                                                                                  |
| County Health Inspector                      | W. Pembleton                                                                                                                                                                                                                                                                 |
| Deputy County Health Inspector               | J. M. Farrall                                                                                                                                                                                                                                                                |
| Chief Mental Welfare Officer                 | T. Rattray                                                                                                                                                                                                                                                                   |
| Superintendent Health Visitor                | Miss M. Okill                                                                                                                                                                                                                                                                |
| Superintendent of Home Nursing               | Miss I. N. Vaughan                                                                                                                                                                                                                                                           |
| Non-Medical Supervisor of<br>Midwives        | Miss K. Heron.                                                                                                                                                                                                                                                               |
| Assistant Superintendents of<br>Home Nursing | Miss L. Jacks<br>Miss M. M. Farrall<br>Miss M. L. Plant                                                                                                                                                                                                                      |

# HEALTH VISITORS & SCHOOL NURSES (145)

|                                                                                          | CIVIL PARISHES                                                              | CENTRES & CLINICS                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.                                                                                       |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mrs. M. L. Baker,<br>The Flat,<br>Broomfield,<br>Meols Drive,<br>Hoylake, Wirral         | Hoylake U.D.<br>(Meols & Hoose Wards)                                       | Broomfield, Meols Drive, Hoylake<br>(Tel. Hoylake 23)<br>Welfare Centre— <i>Thurs. p.m.</i><br>Ante-Natal Clinic— <i>Tues. a.m.</i><br>Preparation Class— <i>Wed. p.m.</i><br>Screening Clinic— <i>1st &amp; 3rd Mon. p.</i>                                                                                                                                                                       |
|                                                                                          |                                                                             | Greasby Road, Greasby<br>Screening Clinic— <i>1st Wed a.m.</i>                                                                                                                                                                                                                                                                                                                                     |
| 2.                                                                                       |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                    |
| Miss W. Lacy,<br>3, Glebe Road,<br>Wallasey<br>(Tel. New Brighton<br>2580)               | Hoylake U.D.<br>(Central, Park & South<br>Wards)                            | Broomfield, Meols Drive, Hoylake<br>Welfare Centre— <i>Thurs. p.m.</i><br>Young Children's Clinic—<br><i>1st Fri. a.m. (alt. months)</i><br>Ante-Natal Clinic— <i>3rd Tues a.m.</i><br>Preparation Class— <i>4th Wed. p.m. (alt. months)</i><br>Paediatric Clinic— <i>Alt. Tues. p.m.</i><br>Screening Clinic— <i>1st Mon. p.m.</i><br>Parish Hall, West Kirby<br>Welfare Centre— <i>Fri. p.m.</i> |
| 3.                                                                                       |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mrs. D. Christian,<br>87, Palm Grove,<br>Oxton, Birkenhead<br>(Tel. Claughton 4702)      | Hoylake U.D.<br>(Grange Ward, Caldy<br>and Frankby Ward Pt. ii—<br>Caldy)   | Broomfield, Meols Drive, Hoylake<br>Young Children's Clinic— <i>1st Fri. a.m. (alt. months)</i><br>Ante-Natal Clinic— <i>Tues. a.m.</i><br>Screening Clinic— <i>3rd Mon. p.m.</i><br>Paediatric Clinic— <i>Alt. Tues. p.m.</i><br>Parish Hall, West Kirby<br>Welfare Centre— <i>Fri. p.m.</i><br>Parish Hall, Newton<br>Welfare Centre— <i>2nd and 4th Wed. p.m.</i>                               |
| 4.                                                                                       |                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                    |
| Miss D. Maybury,<br>12, Far Meadow<br>Lane, Irby, Heswall,<br>Wirral<br>(Tel. Irby 2564) | Hoylake U.D.<br>(Greasby Ward, Caldy and<br>Frankby Ward Pt. i—<br>Frankby) | Broomfield, Meols Drive, Hoylake<br>Ante-Natal Clinic— <i>Tues. a.m.</i><br>Preparation Class— <i>4th Wed. p.m.</i><br>Greasby Road, Greasby<br>(Tel. Arrowebrook 36)<br>Welfare Centre— <i>Tues. p.m.</i><br>Screening Clinic— <i>1st Wed. a.m.</i>                                                                                                                                               |
| Mrs. N. M. Walters,<br>Clinic Nurse                                                      |                                                                             | Broomfield, Meols Drive, Hoylake<br>Eye Clinic— <i>2nd and 4th Mon. p.m.</i><br>Ante-Natal Clinic— <i>Tues. a.m.</i><br>B.C.G. Clinic— <i>4th Thurs. a.m.</i><br>M.A. Clinic— <i>Fri. a.m.</i><br>Parish Hall, Newton<br>Welfare Centre— <i>2nd &amp; 4th Wed. p.m.</i>                                                                                                                            |

\*This clinic is attended by the three H.V's on rota.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

Bebington M.B.  
(N. and part S. Brom. Wards)

The Rake, Eastham (Tel. Eastham 2411)  
Preparation Class—*Wed. p.m.*  
Council Offices, Bromborough  
(Tel. Brom. 2102)  
Young Children's Clinic—*3rd*  
*and 4th Tues p.m.*  
Screening Clinic—*2nd & 4th*  
*Fri. p.m.*  
Welfare Centre—*Thurs. a.m.*

M. Woodbridge, Bebington M.B.  
Risbrooke, (Park & New Ferry Wards)  
Norton Park, Wirral  
Tel. Eastham 2360)

New Ferry Park (Tel. R.F. 1143)  
Welfare Centre—*Wed. p.m.*  
Preparation Class—*Mon. p.m.*

M. F. Cordon, Bebington M.B.  
Westbrook Road, (Eastham (pt.i.) and  
Loughall Massie, Pt. S. Bromborough Wards)  
Wirral  
Tel. Arrowebrook  
6051)

The Rake, Eastham  
Welfare Centre—*Mon. p.m.*  
Ante-Natal Clinic—*Fri. a.m.*  
Screening Clinic—*1st & 3rd*  
*Tues. p.m.*  
Eye Clinic—*2nd & 4th Thurs.*  
*p.m.*  
Council Offices, Bromborough  
Screening Clinic—*4th Fri. p.m.*  
Welfare Centre—*Thurs. a.m.*  
Handicapped Persons Club—  
*Wed. p.m.*

D. V. Stamper, Bebington M.B.  
Hillary Road, (Woodhey and Pt. H.  
Eastham, Wirral Bebington Wards)

New Ferry Park  
Screening Clinic—*2nd & 4th*  
*Mon. a.m.*  
Victoria Hall, Higher Bebington  
(Tel. Mountwood 1527)  
Welfare Centre—*Tues. p.m.*  
Screening Clinic—*1st Fri. a.m.*

A. N. Moulden, Bebington M.B.  
Moorside Avenue, (Part Hr. Bebington Ward)  
Ryckgate,  
Neston, Wirral  
Tel. Neston 2912)

Victoria Hall, Higher Bebington  
Welfare Centre—*Tues. p.m.*  
Screening Clinic—*1st Fri. a.m.*  
New Ferry Park  
Elderly Persons Clinic—*2nd, and*  
*4th Thurs. p.m.*  
Mayer Hall, Bebington  
Young Children's Clinic—*3rd*  
*Thurs. p.m.*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

10.

Miss D. Cadogan,  
69, Southbourne Rd.  
Wallasey

Bebington M.B.  
(Poulton & Pt. L. Bebington  
Wards)

New Ferry Park  
Welfare Centre—*Wed. p.m.*  
Ante-Natal Clinic—*Wed. a.m.*  
Clatterbridge Hospital  
Chest Clinic—*Mon. p.m.*  
(twice monthly)  
Geriatric Clinic—*Thurs. p.m.*  
Women's Institute, Thornton  
Welfare Centre—*1st & 3rd Tues.*  
Mayer Hall, Bebington (Tel. 14)  
Screening Clinic—*2nd Tues.*

11.

Miss E. Nicholson,  
37, Mill Road,  
Hr. Bebington,  
Wirral  
(Tel. Mountwood 1949)

Bebington M.B.  
(Sunlight and Pt.  
L. Bebington Wards)

New Ferry Park  
Paediatric Clinic—*Tues. a.m.*  
Mayer Hall, Bebington  
Welfare Centre—*Fri. p.m.*  
Screening Clinic—*2nd Tues.*

12.

Miss E. J. Lloyd,  
33, Eastham Village  
Road,  
Eastham, Wirral  
(Tel. Eastham 1837)

Bebington M.B.  
(Eastham Ward (pt. ii))

The Rake, Eastham  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—*4th Tues.*  
Screening Clinic—*1st & 3rd Tues.*  
Ante-Natal Clinic—*Fri. a.m.*  
Preparation Class—*Wed. p.m.*  
Paediatric Clinic—*Fri. p.m.*  
(e) 5

Mrs. E. M. Ellis,  
Clinic Nurse

New Ferry Park  
M.A. Clinic—*Mon. a.m.*  
Eye Clinic—*Thurs. a.m.*  
Ante-Natal Clinic—*Wed. a.m.*  
Young Children's Clinic—*Fri. a.m.*

13.

Miss E. L. Roberts,  
23, Penmon Drive,  
Heswall, Wirral

Capenhurst  
Ledsham

Puddington  
Shotwick  
Woodbank

Neston U.D.  
(Burton & Ness, Little Neston  
and Willaston Wards)

Mellock Lane, Neston (Tel. 1st)  
Welfare Centre—*Thurs. p.m.*  
Ante-Natal Clinic—*Mon. n.*  
Preparation Class—*2nd & 4th Fri.*  
Screening Clinic—*2nd & 4th Tues.*  
Red Cross Depot, Willaston  
(Tel. Willaston 2)  
Welfare Centre—*1st & 3rd Fri.*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

s M. M. Spence,  
rendon,  
urrell Road,  
renton, Birkenhead

Neston U.D.  
(Leighton & Parkgate, Neston  
East and West Wards)

Mellock Lane, Neston  
Welfare Centre—*Thurs. p.m.*  
Ante-Natal Clinic—*Mon. a.m.*  
Preparation Class—*1st, 3rd and  
5th Fri. p.m.*  
Screening Clinic—*2nd & 4th  
Tues. a.m.*  
Paediatric Clinic—*Thurs. p.m.*

. E. G. Sinden, Pensby  
yton Grange (Flat 2)  
ell Lane, Gayton,  
Wirral  
Tel. Heswall 2706)

Pensby Road, Pensby (Tel. Irby  
3256)  
Welfare Centre—*Tues. p.m.*  
M.A. Clinic—*2nd Wed. p.m.*  
Young Children's Clinic—*Wed  
p.m.*  
Screening Clinic—*2nd & 4th Fri.  
a.m.*

Barnston  
Gayton  
Heswall

Telegraph Road, Heswall  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—  
*1st & 3rd Tues. p.m.*  
Preparation Class—*Alt. Thurs.  
p.m.*  
Screening Clinic—*1st and 3rd  
Tues. a.m.*  
Ante-Natal Clinic—*Thurs. a.m.*  
Ante-Natal Booking Clinic—  
*Tues. p.m.*

rs. A. C. Storry,  
ne Ridge,  
ross Lane,  
range, Newton,  
irral  
el. Caldý 8029)

Irby  
Thurstaston  
Irby South  
Oldfield

Telegraph Road, Heswall  
Welfare Centre—*Alt. Mon. p.m.*  
Preparation Class—*Thurs. p.m.*  
Screening Clinic—*1st and 3rd  
Tues. a.m.*  
Methodist Hall, Mill Hill Rd., Irby  
Welfare Centre—*1st and 3rd  
Wed. p.m.*  
Pensby Road, Pensby  
Welfare Centre—*2nd and 4th  
Tues. p.m.*  
Screening Clinic—*2nd & 4th  
Fri. a.m.*  
Young Children's Clinic—*2nd &  
4th Wed. p.m.*

J. Waghorn,  
South Drive,  
oy, Heswall

Telegraph Road, Heswall

## CIVIL PARISHES

## CENTRES &amp; CLINICS

Mrs. E. Delve,  
Clinic Nurse

Telegraph Road, Heswall  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—  
*and 3rd Tues.*  
Ante-Natal Clinic—*Thurs.*  
Eye Clinic—*1st & 3rd Fri.*

18.  
Miss J. F. Fawcett,      Ellesmere Port M.B.  
2, Glen Athol Road,      (Sutton Ward, except pt. 1)  
Great Sutton,  
Wirral

Old Chester Road, Great Sutton  
(Tel. Hooton)  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—  
*1st Tues. p.m. (alt. m.)*  
Ante-Natal Clinic—*Fri. a.m.*  
Preparation Class—*1st and 3rd  
Thurs. a.m.*  
Screening Clinic—*Tues. p.m.*  
Immunisation Clinic—*2nd Tues. p.m. (alt. m.)*

18a.  
Mrs. E. H. Smith,      Ellesmere Port M.B.  
The Croft,      (Whitby III, pt. Sutton I)  
Hooton Road,  
Willaston, Wirral

Old Chester Road, Great Sutton  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—  
*Tues. p.m. (alt. m.)*  
Immunisation Clinic—*2nd Tues. p.m. (alt. m.)*  
Ante-Natal Clinic—*Fri. a.m.*  
Preparation Class—*Thurs. p.m.*

19  
Miss K. E. Cawthorn,      Ellesmere Port M.B.  
6, Quarry Avenue,      (Poole Ward)  
Bebington

Old Chester Road, Great Sutton  
Welfare Centre—*Mon. p.m.*  
Preparation Class—*2nd Thurs. p.m.*  
Ante-Natal Clinic—*Fri. a.m.*  
Screening Clinic—*Tues. p.m.*  
*as required*  
Paediatric Clinic—*1st and 3rd  
Tues. p.m.*  
*2nd & 4th Tues. p.m.*  
The Castrol Social Club, Rossmore  
Road E., Overpool  
Welfare Centre—*1st and 3rd  
Thurs. p.m.*

20.  
Mrs. M. E. Waters\*      Ellesmere Port M.B.  
43, Mill Lane,      (Westminster & Stanlow I  
Liscard, Wallasey.      Wards)

Stanney Lane, Ellesmere Port  
(Tel. E. Port 18)  
Welfare Centre—*2nd and 4th  
Tues. p.m.*  
Ante-Natal Clinic—*Mon. p.m.*  
Congregational Church Hall  
Grace Road, Ellesmere Port  
Welfare Centre—*1st and 3rd  
Wed. p.m.*

| CIVIL PARISHES                                                                                                | CENTRES & CLINICS                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| M. T. Slinger,* Ellesmere Port M.B.<br>Avondale (Grange Ward)<br>Whitby,<br>Ellesmere Port                    | Stanney Lane, Ellesmere Port<br>Welfare Centre— <i>Alt. Fri. p.m.</i><br>Ante-Natal Clinic— <i>Mon. a.m.,<br/>Wed. p.m.</i>                                                                                                                                                                                   |
| G. M. Thorburn*†Ellesmere Port M.B.<br>Broadland Gardens (Whitby Ward I)<br>Ellesmere Port                    | Stanney Lane, Ellesmere Port<br>Welfare Centre— <i>Fri. p.m.</i><br>Audiology Clinic— <i>2nd Tues.<br/>a.m. (quarterly)</i><br>Ante-Natal Clinic— <i>Alt. Wed. p.m.</i>                                                                                                                                       |
| Ellesmere Port M.B.<br>(Stanlow II Ward)                                                                      | Stanney Lane, Ellesmere Port<br>Welfare Centre— <i>Tues. p.m.</i><br>Young Children's Clinic— <i>4th Fri. p.m.</i><br>Ante-Natal Clinic— <i>Wed. p.m.</i>                                                                                                                                                     |
| I. M. Trist*†, Ellesmere Port M.B.,<br>Carrington Rd., (Whitby Ward II)<br>Lasey                              | Stanney Lane, Ellesmere Port<br>Welfare Centre— <i>1st and 3rd<br/>Fri. p.m.</i><br>Ante-Natal Clinic— <i>Mon. a.m.,<br/>Wed. p.m.</i><br>York Road, Ellesmere Port<br>Physically Handicapped Persons<br>Club— <i>Thurs. p.m.</i>                                                                             |
| R. Davies*† Ellesmere Port M.B.<br>Ermine Road, (Victoria, Central A.B. and<br>le, Chester Grange B.A. Wards) | Stanney Lane, Ellesmere Port<br>Welfare Centre— <i>1st and 3rd<br/>Tues. p.m.</i><br>Ante-Natal Clinic— <i>Mon. a.m.</i><br>Chester Road, Little Sutton<br>Ante-Natal Clinic— <i>Fri. a.m.</i><br>Ellesmere Port Hospital<br>Paediatric Clinic— <i>Thurs. a.m.</i>                                            |
| J. Coates,<br>Public Nurse)                                                                                   | Stanney Lane, Ellesmere Port<br>Welfare Centre— <i>Tues. and Fri.<br/>p.m.</i><br>Ante-Natal Clinic— <i>Mon. a.m.,<br/>Wed. p.m.</i><br>M.A. Clinic— <i>Thurs. a.m.</i><br>Immunisation Clinic— <i>2nd Thurs.<br/>p.m.</i><br>E.N.T. Clinic— <i>1st and 3rd<br/>Mon. a.m.</i><br>Eye Clinic— <i>Fri. a.m.</i> |
| These Health Visitors attend these<br>Clinics on rota.                                                        | Stanney Lane, Ellesmere Port<br>Immunisation Clinic— <i>2nd Thurs.<br/>p.m.</i>                                                                                                                                                                                                                               |
| These Health Visitors attend the<br>Clinic opposite on rota                                                   | B.C.G. Clinic— <i>2nd Mon. a.m.</i><br>Stanney Lane, Ellesmere Port<br>Screening Clinic— <i>2nd and 4th<br/>Tues. p.m.</i>                                                                                                                                                                                    |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

27.

Mrs. D. Dromgoole,  
Oysters,  
36, Norley Drive,  
Vicars Cross,  
Chester  
(Tel Chester 41406)

|                |               |
|----------------|---------------|
| Aldford        | Handley       |
| Buerton        | Hatton        |
| Chester Castle | Huntington    |
| Churton Heath  | Lr. Kinnerton |
| Claverton      | Lea Newbold   |
| Dodleston      | Marlston      |
| Cotton Abbotts | Newton-by-    |
| Eaton          | Tattenhall    |
| Eccleston      | Poulton       |
| Golborne       | Pulford       |
| Bellow         | Rowton        |
| Golborne       | Saighton      |
| David          | Tattenhall    |
|                | Waverton      |

Barbour Institute, Tattenhall  
Welfare Centre—1st and 3rd  
*Mon.*  
Village Hall, Huntington  
Welfare Centre—2nd and 4th  
*Wed.*  
Presbyterian Church, Egg Bri  
Lane, Waverton  
Welfare Centre—2nd and 4th  
*Tues. p.m.*

28.

Miss B. Jackson,  
30, Acres Lane,  
Upton, Chester  
(Tel. Chester 27251)

|                           |          |
|---------------------------|----------|
| Barrow                    | Mickle   |
| Bridge Trafford           | Trafford |
| Dunham-on-                | Wimbolds |
| the-Hill                  | Trafford |
| Gt. Boughton (North Ward) |          |
| Guilden Sutton            |          |
| Hapsford                  |          |
| Horton-cum-Peel           |          |

Village Hall, Barrow  
Welfare Centre—1st and 3rd  
*Wed.*  
Congregational Church, Gre  
Lane, Vicars Cross, Chester  
Welfare Centre—1st, 3rd &  
*Tues.*  
Screening Clinic—2nd *Wed.*

29.

Miss M.G.E. Crawford  
6, Newton Pk. View,  
Newton, Chester  
(Tel. Chester 24420)

|            |               |
|------------|---------------|
| Bach       | Moston        |
| Lea-by-    | Saughall      |
| Backford   | Shotwick Park |
| Mollington | Upton (pt.)   |

Weston Grove, Upton (Tel.  
Chester 2-  
Welfare Centre—*Thurs. p.m.*  
Eye Clinic—2nd *Tues. p.m.*  
Screening Clinic—2nd and  
*Fri. p.m.*  
Young Children's Clinic—3  
*Tues.*  
Immunisation Clinic—4th *1st*  
Vernon Institute—Saughall  
Welfare Centre—1st and 4  
*Mon.*

30.

Miss M. A. Cowley  
8, Watling Crescent,  
Handbridge,  
Chester

|               |                |
|---------------|----------------|
| Backford      | Little Stanney |
| Caughall      | Picton         |
| Chorlton-by-  | Stoke          |
| Backford      | Thornton-le-   |
| Croughton     | Moors          |
| Elton         | Upton (pt.)    |
| Hoole Village | Wervin         |

Weston Grove, Upton  
Welfare Centre—*Thurs. p.*  
Screening Clinic—2nd and 4  
*Fri.*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

|                                                              |                                                                                                                                                    |                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I. Gourlay,<br>thorne,<br>Str., Tarporley<br>(Tarporley 223) | Ashton<br>Beeston<br>Bruen<br>Stapleford<br>Burton-by-<br>Tarvin<br>Clotton<br>Hoofield<br>Delamere<br>Duddon<br>Foulk<br>Stapleford<br>Hockenhull | Huxley<br>Iddinshall<br>Kelsall<br>Mouldsworth<br>Pryor's Heys<br>Rushton<br>Tarporley<br>Tarvin<br>Tilstone<br>Fearnall<br>Utkinton<br>Tiverton<br>Willington | Community Centre, Tarporley<br>Welfare Centre—2nd and 4th<br><i>Thurs. p.m.</i><br>Screening Clinic—1st Fri. a.m.<br><i>(odd months)</i><br>Eye Clinic—3rd Fri. p.m.<br>Young Children's Clinic—4th<br><i>Thurs. a.m.</i><br>Parish Room, The Vicarage, Tarvin<br>Welfare Centre—2nd and 4th<br><i>Wed. p.m.</i><br>Screening Clinic—1st Fri a.m.<br><i>(even months)</i><br>Parish Hall, Kelsall<br>Welfare Centre—1st and 3rd<br><i>Tues. p.m.</i><br>Jubilee Hall, Malpas<br>Screening Clinic—3rd Thurs. p.m |
|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                            |                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| V. Jones,<br>Willows,<br>High Park,<br>arden,<br>Chester<br>Hawarden 3311) | Agden<br>Aldersey<br>Barton<br>Bickerton<br>Bickley<br>Bradley<br>Broxton<br>Burwardsley<br>Caldecott<br>Carden<br>Chidlow<br>Chorlton<br>Chowley<br>Ch'ch Sho'lach<br>Ch'ton-by-A'fd<br>Churton-by-<br>Farndon<br>Clutton<br>Coddington<br>Crewe<br>Cuddington<br>Duckington<br>Edge<br>Edgerley | Egerton<br>Farndon<br>Grafton<br>Hampton<br>Harthill<br>Horton<br>King's Marsh<br>Larkton<br>Macefen<br>Malpas<br>Newton-by-<br>Malpas<br>Oldcastle<br>Overton<br>Shocklach Oviatt<br>Stockton<br>Stretton<br>Threapwood<br>Tilston<br>Tushingham-<br>cum-Grindley<br>Wigland<br>Wychough | Jubilee Hall, Malpas<br>Welfare Centre—1st, 3rd and 5th<br><i>Mon. p.m.</i><br>Screening Clinic—3rd Thurs. p.m<br>Memorial Hall, Farndon<br>Welfare Centre—1st and 3rd<br><i>Tues. p.m.</i><br>Community Centre, Tarporley<br>Screening Clinic—1st Fri. a.m.<br><i>(odd months)</i><br>The Vicarage, Tarvin<br>Screening Clinic—1st Fri. p.m.<br><i>(even months)</i> |
|----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                                                |                                                                         |                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J. R. Newton,<br>Neston Drive,<br>n, Chester<br>Chester 28521) | Cotton Edmunds<br>Christleton<br>Gt. Boughton (South Ward)<br>Littleton | Women's Institute, Christleton<br>Welfare Centre—1st and 3rd<br><i>Thurs. p.m.</i><br>Congregational Church Hall, Gt.<br>Boughton<br>Welfare Centre— <i>Tues. p.m.</i><br>Screening Clinic—2nd Wed. p.m.<br>Weston Grove, Upton<br>Eye Clinic—2nd Tues. a.m. |
|----------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## CIVIL PARISHES

## CENTRES &amp; CLINICS

34.

Mrs. D. E. Govan\*  
23, Weylands Drive,  
Liverpool, 25

Runcorn U.D.  
(Halton and Grange Wards)

Thorn Road, Grange Estate  
Runcorn (Tel. Runcorn  
Ante-Natal Clinic—*Thurs.*  
Screening Clinic—*Alt. Tues.*  
Welfare Centre—*2nd and 4th Thurs.*

35.

Miss C. V. Kilcullen,\*  
Beaconhurst,  
Tarvin Rd., Frodsham  
(Tel. Frodsham 2440)

Runcorn U.D.  
(Heath and Victoria Wards)

34, Halton Road, Runcorn  
Welfare Centre—*Wed. p.m.*  
Screening Clinic—*Alt. Tues.*

36.

Miss E. O'Connor,  
353, Upton Lane,  
Widnes

Runcorn U.D.  
(Bridgewater & Mersey  
Wards)

34, Halton Road, Runcorn  
Welfare Centre—*Wed. a.m.*  
28, Halton Road, Runcorn  
Eye Clinic—*Tues. p.m.*  
Memorial Hospital, Runcorn  
Paediatric Clinic—*Wed. p.m.*

37.

Miss A. Davies,\*  
3, Cornwall Street,  
Runcorn

Runcorn U.D.  
(Weston Ward)

34, Halton Road, Runcorn  
Young Children's Clinic—  
*and 3rd Fri. a.m.*  
Screening Clinic—*Tues. p.m.*  
Russell Hall, Weston Point  
Welfare Centre—*1st and 3rd Thurs.*  
28, Halton Road, Runcorn  
Preparation Class—*Fri. p.m.*

\*H.V's attend on rota the clinic opposite

Mrs. F. Byrne,  
Clinic Nurse

34, Halton Road, Runcorn  
Eye Clinic—*1st, 2nd and 3rd Tues. p.m.*  
Welfare Centre—*Wed. a.m. and p.m.*  
Ante-Natal Clinic—*Thurs. m.*  
Young Children's Clinic—  
*and 3rd Fri. a.m.*  
Russell Hall, Weston Point  
Welfare Centre—*1st and 3rd Thurs. p.m.*  
Thorn Rd. Grange Estate,  
Runcorn  
Welfare Centre—*2nd and 4th Thurs. p.m.*

38.

Miss S. E. Robinson,  
23, Weston Cres.,  
Runcorn  
(Tel. Runcorn 4239)

Daresbury  
Dutton  
Gt. Budworth  
Halton  
Hatton  
Moore

Norton  
Preston Brook  
Whitley

65 Whitefield Road, Stockport  
Screening Clinic—as requested

## CIVIL PARISHES

## CENTRES &amp; CLINICS

ss J. Harper\*,  
The Woodlands,  
Velsh Road,  
Frodsham,  
Virral

Frodsham

The Rock, Frodsham (Tel. Frodsham 2388)  
Welfare Centre—*Alt. Tues. p.m.*  
Screening Clinic—*1st and 3rd Fri. p.m.*

Mrs. V. E. Fletcher\*  
8, Church Street,  
Frodsham,  
Warrington

Alvanley  
Aston  
Helsby  
Kingsley

Manley  
Norley  
Sutton

The Rock, Frodsham  
Screening Clinic—*1st and 3rd Fri. p.m.*  
Eye Clinic—*2nd Wed. a.m., and 4th Tues. a.m.*  
Cable Works, Helsby  
Welfare Centre—*Alt. Tues. p.m.*  
Hurst Methodist Church, Kingsley  
Welfare Centre—*2nd and 4th Wed. p.m.*

These H.V.'s attend these Clinics on rota.

The Rock, Frodsham  
Young Children's Clinic—*2nd and 4th Thurs p.m.*  
Handicapped Persons Club—*1st and 3rd Thurs. p.m.*  
Preparation Class—*Wed. p.m.*

ss M. Lea,  
8, Oughtrington  
Lane,  
Lymm

Grappenhall  
(North and Thelwall Wards)

Springfield Avenue, Grappenhall  
(Tel. Warrington 61488)  
Welfare Centre—*Thurs. p.m.*  
Preparation Class—*alt. Wed. p.m.*  
Young Children's Clinic—*4th Fri. a.m.*  
Screening Clinic—*2nd and 4th Fri. p.m.*  
Eye Clinic—*1st Thurs. a.m. (alt.)*  
Handicapped Person's Club—*2nd and 4th Tues. p.m. (on rota)*

ss. M. G.  
McManamin  
14, Chester Road,  
Warrington

Antrobus  
Appleton

Grappenhall  
(South Ward)  
Stretton

65, Whitefield Road, Stockton  
Heath (Tel. Warrington 62025)  
Screening Clinic—as required  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—*1st Fri. a.m. (on rota)*  
Preparation Class—*Alt. Wed. p.m.*  
Springfield Avenue, Grappenhall  
Welfare Centre—*Tues. p.m.*  
Screening Clinic—*2nd & 4th Fri. p.m.*  
Preparation Club—*alt. Wed. p.m.*  
Eye Clinic—*1st Tues. a.m. (Alt.)*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

43.

Miss M. Newbold,  
62, Fairfield Gardens,  
Stockton Heath,  
Warrington

Stockton Heath  
Walton

65, Whitefield Road, Stockton  
Heath

Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—*1st*

*Fri. a.m.*

Screening Clinic—As required

Eye Clinic—*4th Tues. p.m.* (on  
*mon.*)

Preparation Class—*Wed. p.m.*

Springfield Ave., Grappenhall

Handicapped Persons Club—

*2nd & 4th Tues. p.m.* (on ro

44.

Miss K. Gosney,  
1, The Green,  
Hartford,  
Northwich

Acton  
Anderton  
Barnton  
Comberbach  
Crowton

Little Leigh  
Marbury

Brunner School, Barnton  
(Tel. Northwich 5639)

Welfare Centre—*2nd and 4th*  
*Wed. p.m.*

Eye Clinic—*1st Thurs. a.m.*

Screening Clinic—*2nd and 4th*  
*Wed. a.m.*

23, Church Lane, Weaverham  
(Tel. Weaverham 337)

Eye Clinic—*Fri. p.m.*

Parish Hall, Comberbach

Welfare Centre—*1st and 3rd*  
*Wed. p.m.*

Screening Clinic—*3rd Wed. p.m.*

45.

Mrs. B. Vintner,  
The Chalet,  
Nunsmere,  
Tarporey Road,  
Sandiway,  
Nr. Northwich

Weaverham

23, Church Lane, Weaverham

Welfare Centre—*Tues. p.m.*

Young Children's Clinic—  
*3rd Mon. p.m.*

Preparation Class—*Thurs. p.m.*

M.A. Clinic—*Fri. a.m.*

Screening Clinic—*Fri. p.m.*

Eye Clinic—*3rd Fri. p.m.*

46.

Mrs. E. E. Conlin,  
38, King Street,  
Knutsford

Northwich U.D.  
(Castle and Winnington  
Wards)

Darland House, Winnington Hall,  
Northwich (Tel. N'wich 43)

Welfare Centre—*Tues. p.m.*

Paediatric Clinic—*4th Mon. p.m.*

Screening Clinic—*1st Fri. p.m.*

Young Children's Clinic—*3rd*  
*Wed. a.m.*

| CIVIL PARISHES                                                                                 |                                                                                                        | CENTRES & CLINICS                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P. M. Toomey,<br>Wytton, Northwich,<br>Parkgate, Northwich,<br>Knutsford (Tel. Knutsford 2236) | Northwich U.D.<br>(Witton and Northwich<br>BA. Wards)                                                  | Parkfield, Middlewich Road,<br>Northwich (Tel. N'wich 2186)<br>Welfare Centre— <i>Thurs. p.m.</i><br>Preparation Class— <i>Mon. p.m.</i><br>Screening Clinic— <i>1st and 3rd Wed. a.m.</i><br>Eye Clinic— <i>1st, 2nd and 4th Fri. p.m. and 2nd and 4th Thurs. a.m.</i>                                                                                                       |
| I. Harris,<br>Riversley Cottage,<br>Wemlow Green,<br>Holmes Chapel<br>Cheshire                 | Allostock<br>Lach Dennis<br>Lostock Gralam<br>Marston<br>Rudheath<br>Whatecroft<br>Wincham             | Parkfield, Middlewich Road,<br>Northwich<br>Welfare Centre— <i>Thurs. p.m.</i><br>E.N.T. Clinic— <i>3rd Wed. p.m.</i><br>Young Children's Clinic— <i>1st Wed. p.m.</i><br>Screening Clinic— <i>1st and 3rd Wed. a.m.</i><br>Alkali Social Club, Lostock<br>Gralam<br>Welfare Centre— <i>2nd &amp; 4th Wed. p.m.</i>                                                           |
| M. Robertshaw,<br>Marbri Cottage,<br>Burgess Lane,<br>Moorley                                  | Cuddington<br>Hartford                                                                                 | Methodist Chapel, Hartford<br>Welfare Centre— <i>2nd and 4th Tues. p.m.</i><br>Church Hall, Sandiway<br>Welfare Centre— <i>1st and 3rd Tues. p.m.</i><br>23, Church Lane, Weaverham<br>Screening Clinic— <i>last Fri. p.m.</i>                                                                                                                                                |
| M. Brown,<br>Eatoller,<br>Northwich Road,<br>Weaverham<br>Northwich<br>(Tel. Weaverham 2357)   | Winsford U.D.<br>(Vale Royal & Wharton Wards)<br>Darnhall Marton<br>Little Moulton<br>Budworth Oakmere | 98, Weaver Street, Winsford (Tel. Winsford 2387)<br>Young Children's Clinic— <i>1st Thurs. p.m.</i><br>Welfare Centre— <i>Fri. p.m.</i><br>Eye Clinic— <i>3rd &amp; 4th Thurs. p.m.</i><br>Screening Clinic— <i>1st Tues. p.m.</i><br>Church Hall, Moulton<br>Welfare Centre— <i>1st &amp; 3rd Wed. p.m.</i><br>St. John's Vicarage, Over<br>Welfare Centre— <i>Mon. p.m.</i> |
| J. M. Gassick,<br>71, Chester Road,<br>Hartford,<br>Northwich<br>(Tel. Sandiway 2040)          | Winsford U.D.<br>(Gravel, Over & Swanlow<br>Wards)                                                     | 98, Weaver Street, Winsford<br>Welfare Centre— <i>Fri. p.m.</i><br>Young Children's Clinic— <i>1st Thurs. p.m.</i><br>Preparation Class— <i>Wed. p.m.</i><br>M.A. Clinic— <i>Fri. p.m.</i><br>E.N.T. Clinic— <i>3rd Tues. p.m.</i><br>Screening Clinic— <i>1st Tues. p.m.</i>                                                                                                 |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

52.

Miss A. Gratrix,  
Wensley,  
Birch Lane,  
Stanthorne,  
Middlewich

Northwich U.D.  
(Northwich BB Ward)  
Bostock Stanthorne  
Davenham Tetton  
Wimboldsley

85 Wheelock Street, Middlew  
(Tel. Middlewich 21)  
Screening Clinic—2nd, 4th  
and 5th Thurs. p.m.  
Darland House, Winnington H,  
Northw  
Screening Clinic—1st Fri. p.m.  
Methodist Hall, Davenham  
Welfare Centre—1st & 3rd Th  
Farm of the Good Shepherd,  
Leftwa  
Welfare Centre—2nd & 4th T

53.

Miss M. Barlow,  
Ingleton,  
4, Plant Lane,  
Elton, Sandbach  
(Tel. Sandbach 155)

Middlewich U.D.  
Sproston (Pt.)  
Byley

85 Wheelock Street, Middlewic  
Welfare Centre—Mon. p.m.  
Young Children's Clinic—1st  
Thurs. p.m.  
Eye Clinic—3rd Tues. p.m.  
Screening Clinic—2nd, 3rd, h  
and 5th Thurs. p.m.

53 (a)

Mrs. G. Street,  
88, Macclesfield Rd.,  
Holmes Chapel,  
Crewe  
(Tel. Holmes Chapel  
3095)

Church Hulme Sproston  
Crnage Swettenham  
Goostrey Twemlow  
Somerford Withington  
Somerford  
Booths

Mothers' Union Hut, Holmes  
Chapel  
Welfare Centre—2nd and 4th  
Tues. p.m.  
Social Club, Goostrey  
Welfare Centre—1st and 3rd  
Tues. p.m.

54.

Miss H. M. Dawson,  
Bollin Grove,  
Prestbury,  
Macclesfield

Knutsford U.D. (Over and  
Nether Wards)  
Ollerton  
Peover Superior  
Toft

County Offices, Bexton Road,  
Knutsford (Tel. Knutsford 33)  
Welfare Centre—Wed. p.m.  
Young Children's Clinic—4th  
Thurs. p.m.  
Screening Clinic—2nd and 4th  
Fri. p.m.  
Eye Clinic—1st Thurs. p.m. and  
4th Tues. p.m.  
Parish Room, Over Peover  
Welfare Centre—1st and 3rd  
Mon. p.m.

55.

Miss F. N. Pickford,  
327 London Road,  
Davenham,  
Northwich

Knutsford U.D. (West Ward)  
Aston-by-Peover Inferior  
Budworth Pickmere  
Bexton Plumley  
Mere Tabley Inferior  
Nether Peover Tabley  
Superior

County Offices, Bexton Road,  
Knutsford  
Welfare Centre—Wed. p.m.  
Young Children's Clinic—2  
Thurs. p.m.  
The Institute, Lower Peover  
Welfare Centre—2nd Mon. p.m.  
Village Hall, Plumley  
Welfare Centre—1st and 3rd  
Thurs. p.m.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

|                                              |                                              |                                                              |
|----------------------------------------------|----------------------------------------------|--------------------------------------------------------------|
| E. M. Scott,<br>Highfield Drive,<br>Nantwich | Nantwich U.D.<br>(Barony & Wellington Wards) | The Dowery, Barker Street,<br>Nantwich (Tel. Nantwich 65360) |
| Alraham                                      | Leighton                                     | Welfare Centre— <i>Thurs. p.m.</i>                           |
| Aston-juxta-                                 | Minshull Vern.                               | Preparation Class— <i>Mon. p.m.</i>                          |
| Mondrum                                      | Poole                                        | M.A. Clinic— <i>2nd Mon. a.m.</i>                            |
| Calveley                                     | Wardle                                       | Screening Clinic— <i>1st Fri. p.m.</i>                       |
| Cholmondeston                                | Wettenhall                                   |                                                              |
| Church                                       | Woolstanwood                                 |                                                              |
| Minshull                                     | Worleston                                    |                                                              |
| Henhull                                      |                                              |                                                              |

|                             |                                                     |
|-----------------------------|-----------------------------------------------------|
| Nantwich U.D. (Weaver Ward) | The Dowery, Barker Street,<br>Nantwich              |
| Acton                       | Edleston                                            |
| Baddiley                    | Faddiley                                            |
| Baddington                  | Haughton                                            |
| Brindley                    | Hurleston                                           |
| Broomhall                   | Peckforton                                          |
| Bulkeley                    | Ridley                                              |
| Bunbury                     | Sound                                               |
| Burland                     | Spurstow                                            |
| Cholmondeley                | Stoke                                               |
| Chorley                     | Woodcott                                            |
|                             | Welfare Centre— <i>2nd &amp; 4th Thurs. p.m.</i>    |
|                             | Young Children's Clinic— <i>1st Thurs. a.m.</i>     |
|                             | Screening Clinic— <i>2nd Fri. p.m.</i>              |
|                             | Oddfellows Hall, Bunbury                            |
|                             | Welfare Centre— <i>1st and 3rd Fri. p.m.</i>        |
|                             | Screening Clinic— <i>1st Wed. p.m. (odd months)</i> |

|                                                                           |                                                                                                                                                                               |                                                                                                                                                     |                                               |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| D. Griffiths,<br>st View,<br>tle Heath,<br>dlem<br>ewe<br>el. Audlem 443) | Audlem<br>Austerston<br>Batherton<br>Blakenhall<br>Bridgemere<br>Buerton<br>Checkley-cum-<br>Wrinehill<br>Chorlton<br>Coole Pilate<br>Dodcott-cum-<br>Wilkesley<br>Doddington | Hankelow<br>Hatherton<br>Hough<br>Hunsterson<br>Lea<br>Marbury<br>Newhall<br>Norbury<br>Stapeley<br>Walgherton<br>Wirswall<br>Wrenbury<br>Wybunbury | The Dowery, Barker Street,<br>Nantwich        |
|                                                                           |                                                                                                                                                                               |                                                                                                                                                     | Screening Clinic— <i>1st Fri. p.m.</i>        |
|                                                                           |                                                                                                                                                                               |                                                                                                                                                     | Eye Clinic— <i>5th Tues. a.m. &amp; p.m.</i>  |
|                                                                           |                                                                                                                                                                               |                                                                                                                                                     | <i>2nd, 3rd, 4th and 5th Thurs a.m.</i>       |
|                                                                           |                                                                                                                                                                               |                                                                                                                                                     | Parish Hall, Wrenbury                         |
|                                                                           |                                                                                                                                                                               |                                                                                                                                                     | Welfare Centre— <i>2nd and 4th Wed. p.m.</i>  |
|                                                                           |                                                                                                                                                                               |                                                                                                                                                     | Methodist Church Hall, Audlem                 |
|                                                                           |                                                                                                                                                                               |                                                                                                                                                     | Welfare Centre— <i>1st and 3rd Tues. p.m.</i> |

|                                              |                        |                                                   |
|----------------------------------------------|------------------------|---------------------------------------------------|
| R. Davies,<br>Church Lane,<br>staston, Crewe | Willaston<br>Wistaston | The Dowery, Barker Street,<br>Nantwich            |
|                                              |                        | Welfare Centre— <i>1st and 3rd Thurs. p.m.</i>    |
|                                              |                        | Memorial Hall, Church Lane,<br>Wistaston          |
|                                              |                        | Welfare Centre— <i>2nd, 3rd and 4th Wed. p.m.</i> |
|                                              |                        | Screening Clinic— <i>3rd Fri. p.m.</i>            |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

60.

|                                |                                                    |
|--------------------------------|----------------------------------------------------|
| Nantwich U.D. (Willaston Ward) | The Dowery, Barker Street, Nantwich                |
| Barthomley                     | Welfare Centre—5th Thurs. p.                       |
| Crewe (Rural)                  | Shavington-cum-Gresty Screening Clinic—2nd Fri. p. |
| Basford                        | Warmingham M.A. Clinic—4th Mon. a.m.               |
| Haslington                     | Weston Yoxall Institute, Haslington                |
| Rope                           | Welfare Centre—1st & 3rd Thurs. p.                 |
|                                | Church Hall, Shavington                            |
|                                | Welfare Centre—2nd & 4th Thurs. p.                 |

61.

|                                                |                             |                                                   |
|------------------------------------------------|-----------------------------|---------------------------------------------------|
| Miss A. Mullany, 54, Highfield Drive, Nantwich | Crewe M.B. (South District) | Stalbridge Road, Crewe (Tel. Crewe 24)            |
|                                                |                             | Welfare Centre—Mon. p.m. and Wed. a.m.            |
|                                                |                             | M.A. Clinic—Tues. a.m.                            |
|                                                |                             | Screening Clinic—1st, 3rd and 5th Wed. p.         |
|                                                |                             | Eye Clinic—1st Tues. p.m. and 2nd and 4th Fri. p. |
|                                                |                             | Young Children's Clinic—4th Wed. p.               |
|                                                |                             | Preparation Class—Thurs. p.m.                     |

62.

|                                                             |                               |                                                      |
|-------------------------------------------------------------|-------------------------------|------------------------------------------------------|
| Mrs. F.E. Strowbridge 60, Sandilands Park, Wistaston, Crewe | Crewe M.B. (Central District) | Stalbridge Road, Crewe                               |
|                                                             |                               | Welfare Centre—1st, 3rd and 5th Mon. p.m., Wed. a.m. |
|                                                             |                               | Young Children's Clinic—4th Wed. p.m.                |
|                                                             |                               | Screening Clinic—1st, 3rd and 5th Wed. p.            |
|                                                             |                               | Eye Clinic—1st Tues. p.m., 2nd and 4th Fri. p.       |
|                                                             |                               | Preparation Class—Thurs. p.m.                        |

63.

|                                          |                            |                                           |
|------------------------------------------|----------------------------|-------------------------------------------|
| Miss M. E. Slack, 16, Kempton Av., Crewe | Crewe M.B. (S.W. District) | Stalbridge Road, Crewe                    |
|                                          |                            | Welfare Centre—2nd and 4th Mon. p.        |
|                                          |                            | Paediatric Clinic—1st Fri. p.m.           |
|                                          |                            | Preparation Class—Thurs. p.m.             |
|                                          |                            | Screening Clinic—1st, 3rd and 5th Wed. p. |
|                                          |                            | Minshull New Road, Crewe                  |
|                                          |                            | Welfare Centre—1st, 3rd and 5th Tues. p.  |

64.

|                                                         |                            |                                       |
|---------------------------------------------------------|----------------------------|---------------------------------------|
| Mrs. L.M.D. Atkinson* 12, Crewe Road, Shavington, Crewe | Crewe M.B. (East District) | Ludford Street, Crewe (Tel. Crewe 23) |
|                                                         |                            | Screening Clinic—2nd Wed. p.          |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

Miss E. Broom\*,  
10, Clifton Avenue,  
Crewe

Crewe M.B.  
(North Central District)

Ludford Street, Crewe  
Paediatric Clinic—3rd Fri. *p.m.*  
Screening Clinic—4th Wed. *p.m.*  
Eye Clinic—1st and 5th Fri. *p.m.*  
4th and 5th Wed. *a.m.*

Miss J. S. Reid\*,  
55 Moat House Drive  
Crewe

Crewe M.B.  
(West & Coppenhall District)

Ludford Street, Crewe  
E.N.T. Clinic—4th Tues. *a.m.*  
Screening Clinic—2nd and 4th  
Wed. *p.m.*  
Minshull New Road, Crewe  
Welfare Centre—1st, 3rd and 5th  
Tues. *p.m.*

\*These Health Visitors also attend on rota the four  
other Clinics listed opposite.

Ludford Street, Crewe  
Welfare Centre—Thurs. *a.m.* and  
*p.m.*  
Ante-Natal Clinic—Mon and  
Tues. *p.m.*  
M.A. Clinic—Mon. & Wed *a.m.*  
Young Children's Clinic—4th Fri.  
*p.m.*

Mrs. J. Hall,  
Clinic Nurse

Ludford Street, Crewe  
E.N.T. Clinic—1st Wed. *p.m.*  
Eye Clinic—2nd, 3rd, 4th & 5th  
Wed. *a.m.*  
1st and 5th Fri. *p.m.*  
Paediatric Clinic—3rd Fri. *p.m.*  
Stalbridge Road, Crewe  
Eye Clinic—1st Tues. *p.m.*  
4th Fri. *p.m.*  
Paediatric Clinic—3rd Fri. *p.m.*

Miss H. M. Furness,  
4, Harpur Crescent,  
Alsager,  
Stoke-on-Trent

Alsager U.D. (S. & E. Wards)  
Betchton  
Hassall

Sandbach Road S., Alsager  
(Tel. Alsager 3215)  
Welfare Centre—Tues. *p.m.* and  
Tues. *a.m.* (alt.)  
M.A. Clinic—1st Fri. *a.m.*  
Screening Clinic—1st and 3rd  
Mon. *p.m.*  
Preparation Class—Thurs. *p.m.*  
Young Children's Clinic—3rd  
Wed. *p.m.* (alt. mths)  
Immunisation Clinic—2nd Wed.  
*a.m.* (alt. mths)

## CIVIL PARISHES

## CENTRES &amp; CLINICS

69.

Mrs. B. M. Doorbar, Alsager U.D.  
5, Nelson Grove, (N. & W. Wards)  
Alsager,  
Stoke-on-Trent  
(Tel. Alsager 3454)

Sandbach Road, S., Alsager  
Welfare Centre—*Tues. p.m.*  
*Tues. a.m.* (alt. month)  
Preparation Class—*Thurs. p.m.*  
Eye Clinic—*1st and 4th Wed. a.m.*  
Screening Clinic—*1st and 3rd Mon. p.*  
Young Children's Clinic—*3rd Wed p.m.* (alt. month)  
Immunisation Clinic—*2nd Wed a.m.* (alt. month)

70.

Miss B. Richardson, Smallwood  
The White House, Odd Rode  
132, Crewe Road, Church Lawton  
Alsager,  
Stoke-on-Trent  
(Tel. Alsager 395)

Methodist Sunday School, Mow  
Welfare Centre—*1st & 3rd Wed p.*  
The Institute, Rode Heath  
Welfare Centre—*2nd & 4th Mon p.*  
Village Hall, Scholar Green  
Welfare Centre—*2nd & 4th Wed p.*  
Sandbach Road, S., Alsager  
Preparation Class—*Thurs. p.m.*  
Screening Clinic—*1st & 3rd Mon p.*  
E.N.T. Clinic—*3rd Fri. p.m.*

71.

Mrs. J. V. Sasson, Lymm U.D.  
324, Moorside Road, High Legh  
Flixton, Urmston,  
Manchester

29, Eagle Brow, Lymm (Tel. Lymm 37)  
Welfare Centre—*Tues. p.m.*  
Young Children's Clinic—*2nd and 4th Fri. p.m.*  
Midwives Clinic—*Thurs. p.m.*  
Screening Clinic—*2nd and 4th Mon. p.*  
Eye Clinic—*1st Thurs. a.m., 2nd & 5th Thurs. p.m.*  
Immunisation Clinic—*3rd Thurs. a.m.*  
Women's Institute, Sandy Lane  
Welfare Centre—*1st & 3rd Wed p.m.*

71a.

Mrs. A. Harrison,  
29, Jubilee House,  
Runcorn.

29, Eagle Brow, Lymm

## CIVIL PARISHES

## CENTRES &amp; CLINICS

|                                                                                          |                                                                               |                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| rs. S. J. Powell,<br>Flat 2,<br>Grappenhall Hall Sch.<br>Grappenhall<br>Warrington       | Sale M.B.<br>(St. Martin's N.S. and<br>Mersey NP. Wards)                      | Bodmin Road, Sale (Tel. Sale 1127)<br>Welfare Centre— <i>Wed. p.m.</i><br>Young Children's Clinic— <i>2nd</i><br><i>Mon. p.m.</i> (alt. months)<br>70, Chapel Road, Sale (Tel. Sale<br>1329)<br>Welfare Centre— <i>Thurs. p.m.</i> |
| 2a.<br>Mrs. R. E. Shepherd,<br>11, Pasture Field Rd.,<br>Wythenshawe,<br>Manchester, 22. | Sale M.B.                                                                     |                                                                                                                                                                                                                                    |
| 3.<br>Mrs. E. Heywood*†<br>125, Norris Road,<br>Sale, Cheshire                           | Sale M.B.<br>(Sale Moor Ward)                                                 | Community Centre, Sale Moor,<br>Welfare Centre— <i>Thurs. p.m.</i><br>70, Chapel Road, Sale<br>M.A. Clinic— <i>Wed. a.m.</i>                                                                                                       |
| 4.<br>Mrs. M. Holmes*,<br>60, Broad Road,<br>Sale, Cheshire<br>(Tel. Sale 4717)          | Sale M.B.<br>(St. Anne's NB and<br>St. John's Wards)                          | 70, Chapel Road, Sale<br>Welfare Centre— <i>Tues. and</i><br><i>Thurs. p.m.</i><br>Ante & Post Natal Clinic— <i>Wed.</i><br><i>p.m.</i>                                                                                            |
| 5.<br>Miss E. Cottrell,<br>9 Carrington Lane,<br>Ashton-on-Mersey<br>Sale                | Sale M.B.<br>(St. Mary's NN and Brook-<br>land ND & NE Wards)                 | Meadway, Sale<br>Welfare Centre— <i>Tues. p.m.</i><br>Young Children's Clinic— <i>3rd</i><br><i>Mon. p.m.</i><br>Screening Clinic— <i>1st &amp; 3rd</i><br><i>Thurs. a.m.</i>                                                      |
| 6.<br>Mrs. J. Fell,*†<br>118, Green Lane,<br>Timperley                                   | Sale M.B.<br>(St. Paul's St. Anne's<br>(NA & NC) & Mersey<br>(NQ & NR) Wards) | 70, Chapel Road, Sale<br>Welfare Centre— <i>Tues. &amp; Thurs.</i><br><i>p.m.</i>                                                                                                                                                  |
| 7.<br>Miss A. Yates,<br>18, Beechwood Ave.,<br>Chorlton-cum-Hardy<br>Manchester, 21      | Sale M.B.<br>(St. Martin's NT & NU<br>and St. Mary's NO Wards)                | Bodmin Road, Sale<br>Welfare Centre— <i>Wed. p.m.</i><br>Meadway, Sale<br>Welfare Centre— <i>Tues. p.m.</i>                                                                                                                        |
| 8.<br>Miss J. L. Vine,<br>12a, Fairfax Avenue,<br>Didsbury,<br>Manchester, 20            | Sale M.B.                                                                     |                                                                                                                                                                                                                                    |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

\*These Health Visitors also attend on rota the  
Clinics opposite  
† do.

70, Chapel Road, Sale  
Eye Clinic—1st, 3rd & 5th Mon. a.m.  
Screening Clinic—Tues. a.m.  
Sun-ray Clinic—Mon. & Fri. p.m.  
Preparation Class—Wed. p.m.

Mrs. G. Hall,  
Clinic Nurse

Chapel Road, Sale  
Eye Clinic—Mon. a.m.  
Welfare Centre—Tues. & Thurs. p.m.  
M.A. Clinic—Wed. a.m.  
Young Children's Clinic—  
3rd Mon. p.m. (even months)  
Immunisation Clinic—Fri. a.m.  
Sun-ray Clinic—Mon. & Fri. p.m.  
Meadway, Sale  
School Clinic—1st Tues. a.m.  
Welfare Centre—Wed. p.m.  
Eye Clinic—Mon. a.m., when  
required

79.

Miss A. Milvenan, Hale U.D.  
Flat 2. (North and Central Wards)  
1, Hawthorn Road, Ashley  
Hale, Altrincham

9, Broomfield Lane, Hale (Tel. 46)  
Welfare Centre—Wed. p.m.  
Young Children's Clinic—4th  
Tues. p.m. (odd months)  
Eye Clinic—3rd, 4th & 5th Wed. p.m.  
Vaccination and Immunisation  
Clinic—1st Fri. a.m.  
Screening Clinic—2nd & 4th Thurs. p.m.

80

Mrs. E. G. Morrison, Hale U.D. (Bollin and  
21, Thorley Lane, Well Green Pt. A. Wards)  
Timperley, Ringway Rostherne  
Altrincham Tatton

Unitarian Schoolroom, Hale B.A.  
Welfare Centre—Thurs. a.m.  
Screening Clinic—2nd & 4th  
Thurs. p.m.  
9 Broomfield Lane, Hale  
Young Children's Clinic—4th  
Tues. p.m. (even months)  
Screening Clinic—2nd Fri. a.m.  
Immunisation Clinic—1st Fri. a.m.  
Eye Clinic—2nd Fri. p.m.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

Mrs. D. W. Kelly, Hale U.D.  
 40, Albemarle Road, (Well Green Ward Pt. B)  
 Chorlton-cum-Hardy Bowdon U.D.  
 Manchester 21

9 Broomfield Lane, Hale  
 Welfare Centre—Wed. p.m.  
 Young Children's Clinic—3rd  
 Mon. p.m. (even months)  
 Screening Clinic—4th Fri. a.m.  
 Unitarian Schoolroom, Hale Barns  
 Welfare Centre—Tues. a.m.  
 Screening Clinic—2nd & 4th  
 Thurs. a.m.  
 Methodist Schoolroom, Bowdon  
 Welfare Centre—2nd & 4th Thurs.  
 p.m.

Mrs. D. Roberts, Partington (part)  
 15, St. Leonard's  
 Drive,  
 Altrincham

Central Road, Partington (Tel.  
 Irlam 2409)  
 Welfare Centre—Mon. & Thurs.  
 p.m.  
 Ante-Natal Clinic—Fri. p.m.  
 Screening Clinic—4th Tues. a.m.  
 4th Thurs. a.m.  
 Young Children's Clinic—  
 3rd Wed a.m.  
 Preparation Class—Tues. p.m.

Mrs. M. Mulvihill, Agden Dunham  
 40, Lyndhurst Road, Bollington Massey  
 Stretford, Carrington Millington  
 Manchester Partington (part)  
 Warburton

Central Road, Partington  
 Welfare Centre—Mon. & Thurs.  
 p.m.  
 Preparation Class—Tues. p.m.  
 Screening Clinic—4th Tues. a.m.  
 and 4th Thurs. a.m.  
 Ante-Natal Clinic—Fri. p.m.  
 Young Children's Clinic—4th  
 Wed. p.m. (even months)  
 Eye Clinic—1st & 2nd Wed. a.m.  
 Immunisation Clinic—1st Tues  
 a.m.

Mrs. J. Howe,  
 Clinic Nurse

Central Road, Partington  
 Immunisation Clinic—1st Tues.  
 a.m.  
 Eye Clinic—1st & 2nd Wed. a.m.  
 Ante-Natal Clinic—Fri. p.m.  
 Welfare Centre—Mon. p.m. and  
 Thurs. p.m.

Mrs. F. Pickering,† Altrincham M.B.  
 16, Denstone Ave., (Dunham (AD, AE, AF),  
 Davyhulme, Urmston North (AH))  
 Manchester  
 (Tel. Urmston 7246)

12 The Mount, Altrincham (Tel.  
 Alt. 5323)  
 Welfare Centre—Mon. & Wed.  
 p.m.  
 Young Children's Clinic—2nd  
 Thurs. p.m. (even months)  
 M.A. Clinic—Mon. a.m.  
 (even months)  
 Screening Clinic—1st & 3rd  
 Tues. a.m.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

85.

Mrs. K. M. Connor,† Altrincham M.B.  
6, The Mount, (East Central (AA, AB) )  
Altrincham

12 The Mount, Altrincham  
Welfare Centre—*Mon. & W*  
*p*  
Young Children's Clinic—*2nd*  
*Thurs. p.m.* (odd mont  
M.A. Clinic—*Mon. a.m.* (odd  
mont  
Screening Clinic—*1st & 3rd*  
*Tues. a*  
Vacc. and Immunisation Clin  
*2nd Wed. a*

86.

Mrs. F. M. Whitworth Altrincham M.B.  
5, Mayfield Close, (Timperley No. 4, (AU,  
Timperley, AV, AT, and AW) )  
Altrincham

145 Park Road, Timperley (Tel  
Sale 66  
Welfare Centre—*Thurs. p.m.*  
Ante-Natal Clinic—*2nd & 4th*  
*Wed. p.*  
Preparation Class—*2nd & 4th*  
*Wed. p.m*  
Young Childrens' Clinic—*Tu*  
*a*  
65 Briarfield Road, Broomwood  
Timperley (Tel. Ringway 43)  
Welfare Centre—*Mon. p.m.*

87.

Mrs. M. T. H. Twigg, Altrincham M.B.  
23, Amherst Road, (Timperley No. 2 (AN,  
Withington AO) and No. 4 (AS))  
Manchester, 20  
(Tel Rusholme 9423)

145 Park Road, Timperley  
Welfare Centre—*Tues. p.m.*  
Young Children's Clinic—*Tu*  
*a*  
Ante-Natal Clinic—*2nd & 4th*  
*Wed. p.*  
M.A. Clinic—*1st & 3rd Wed. a*  
Young Children's Clinic—*1st*  
*3rd Wed. a.m*  
Preparation Class—*2nd & 4th*  
*1st*  
Screening Clinic—*4th Thurs. a*

88.

Miss M. Owen, Altrincham M.B.  
15, Roughey Gardens (Timperley No. 1 (AL)  
Brownley Green, and No. 3 (AP, AQ, AR))  
Wythenshawe,  
Manchester 22

145 Park Road, Timperley  
Welfare Centre—*Tues. & Th*  
*1st*  
Young Children's Clinic—*1st*  
*1st*  
Ante-Natal Clinic—*2nd & 4th*  
*Wed. 1st*  
Preparation Class—*2nd & 4th*  
*Wed. 1st*  
Screening Clinic—*2nd & 4th*  
*Thurs. a.m*

# CIVIL PARISHES

# CENTRES & CLINICS

Miss M. F. Barr,†  
2, Ditchfield Lane,  
High Legh,  
Nr. Knutsford,  
Cheshire

Altrincham M.B.  
(Timperley No. 1 (AM)  
East Central (AC)  
North (AG))

†These Health Visitors attend the  
clinic opposite on rota

12 The Mount, Altrincham  
Welfare Centre—*Mon. & Wed.*  
*p.m.*  
Screening Clinic—*1st Tues. a.m.*  
145, Park Road, Timperley  
Screening Clinic—*4th Thurs. a.m.*  
12, The Mount, Altrincham  
Midwives' Clinic—*Thurs. p.m.*

Miss L. M. Minshall,  
Clinic Nurse

12, The Mount, Altrincham  
Welfare Centre—*Mon. & Wed.*  
*p.m.*  
145, Park Road, Timperley  
Welfare Centre—*Tues. & Thurs.*  
*p.m.*  
Young Children's Clinic—*Tues.*  
*a.m.*

Miss C. M. Marsh,  
23, King's Close,  
Wilmslow,  
Cheshire

Alderley Edge U.D.  
Wilmslow U.D. Chorley  
(Hough Wd.) Great  
Warford  
Marshall  
Mobberley

Chapel Lane, Wilmslow (Tel.  
Wilmslow 6444)  
Welfare Centre—*Wed. p.m.*  
Screening Clinic—*Alt. Fri. a.m.*  
Church Institute, Alderley Edge  
Welfare Centre—*Fri. p.m.*  
Victory Hall, Mobberley  
Welfare Centre—*Alt. Tues. p.m.*

Miss D. M. Bowers,  
1, Albany Road,  
Wilmslow,  
Cheshire

Wilmslow U.D.  
(Morley & Fulshaw Wards)

Chapel Lane, Wilmslow  
Welfare Centre—*Wed. p.m.*  
Young Children's Clinic—*3rd*  
*Tues. p.m.*  
Screening Clinic—*Alt. Fri. a.m.*  
Preparation Class—*Mon. p.m.*

Miss K. Halstead,  
11, Park Road,  
Cheadle, Cheshire

Wilmslow U.D.  
(Handforth Ward)

The Green, Wilmslow Road,  
Handforth (Tel. Wilmslow 5767)  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—*1st*  
*Wed. a.m.*  
Preparation Class—*Tues. p.m.*  
Screening Clinic—*2nd & 3rd Fri.*  
*a.m.*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

93.

Miss K. L. Marsden,  
6, Burford Close,  
Wilmslow

Wilmslow U.D.  
(Dean Row & Styal Wards)

The Green, Wilmslow Road,  
Handforth  
Screening Clinic—2nd & 3rd Feb.  
a.  
Parish Hall, Barlow Road, Lac  
Gre  
Welfare Centre—1st & 3rd Mon  
p.m.  
Young Children's Clinic—3rd  
Wed. a.

Mrs. M. J. Davies,  
Clinic Nurse

Chapel Lane, Wilmslow  
Eye Clinic—1st & 3rd Tues. a.  
M.A. Clinic—3rd Mon. a.m.  
The Green, Wilmslow Road,  
Handforth  
Welfare Centre—Mon. p.m.

94.

Miss M. R. Adamson,  
6, Hawkins Lane,  
Rainow,  
Macclesfield

Bollington U.D.

Wellington Road, Bollington  
(Tel. Boll. 237)  
Welfare Centre—2nd & 4th  
Thurs. p.  
M.A. Clinic—1st Tues. a.m.  
Screening Clinic—Tues. a.m.  
(except 1st)  
Eye Clinic—2nd Tues. p.m.

95.

Miss N. R. Williams,  
Ivy Cottage,  
Snelson,  
Chelford,  
Macclesfield  
(Tel. Chelford 489)

Chelford  
Henbury  
Hulme  
Walfield  
Marton  
Mottram-St-  
Andrew

Nether Alderley  
Over Alderley  
Prestbury  
Siddington  
Snelson

Wellington Road, Bollington  
Welfare Centre—2nd & 4th  
Thurs. p.  
Prestbury Welfare Centre—  
1st and 3rd Wed. p.

96.

Miss C. M. Nixon,  
122, Gt. King Str.,  
Macclesfield

Bosley  
Eaton  
Gawsworth  
Hurdsfield  
Macclesfield  
Forest  
North Rode

Rainow  
Sutton  
Wildboarclough  
Wincle

Sanders Square, Macclesfield  
Sutton Welfare Centre—2nd and  
4th Wed. p.m.  
Rainow and Prestbury  
Welfare Centre—1st & 3rd Wed.  
p.  
Wellington Road, Bollington  
Screening Clinic—Tues. a.m.  
(except 1st)

## CIVIL PARISHES

## CENTRES &amp; CLINICS

|                                                                                                                                                |                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ss. F. E. Kilbourn, Adlington<br>Edendale, Kettleshulme<br>Buxton Road, Lyme<br>Newtown, Handley<br>New Mills, Central (A)<br>Stockport Wards) | Pott Shrigley<br>Poynton<br>(East and<br>Central (A)<br>Wards) | Park Lane, Poynton (Tel. Poynton<br>2127)<br>Welfare Centre— <i>Thurs. p.m.</i><br>Young Children's Clinic— <i>4th<br/>Tues. p.m.</i><br>Midwives Clinic— <i>Alt. Mon. p.m.</i><br>M.A. Clinic— <i>3rd Tues. p.m.</i><br>Screening Clinic— <i>3rd Tues. p.m.</i><br>E.N.T. Clinic—Even months,<br><i>3rd Wed. p.m.</i><br>Eye Clinic— <i>2nd Tues. a.m.</i>                                                                                                                                                                                                                  |
| ss J. Jolley<br>Flat C,<br>Langroyd House,<br>2, Spath Road,<br>Didsbury,<br>Manchester, 20<br>(Tel. Didsbury 4110)                            | Poynton<br>(Central (B) & West Wards)                          | Park Lane, Poynton<br>Welfare Centre— <i>Thurs. p.m.</i><br>Midwives Clinic— <i>Mon. p.m. (alt)</i><br>E.N.T. Clinic— <i>3rd Wed. p.m.</i><br><i>(alt. months)</i><br>Eye Clinic— <i>2nd Tues. p.m. (alt.<br/>months)</i><br>Screening Clinic— <i>3rd Tues. p.m.</i><br>Young Children's Clinic— <i>4th<br/>Tues. a.m. (alt. months)</i>                                                                                                                                                                                                                                     |
| Miss T. Martin,<br>52, Bridge Street,<br>Macclesfield                                                                                          | Macclesfield M.B.<br>(North West District)                     | 52 Bridge Street, Macclesfield<br>(Tel. Macc. 5501)<br>Welfare Centre— <i>Monday p.m.<br/>and 1st and 3rd Thurs. a.m.</i><br>Ante-Natal Clinic— <i>1st &amp; 3rd<br/>Wed. p.m.</i><br>Screening Clinic— <i>1st Wed. a.m.</i><br>Pierce Street, Macclesfield (Tel.<br>Macc. 3053)<br>M.A. Clinic— <i>Tues. &amp; Fri. a.m.</i><br>E.N.T. Clinic— <i>Mon. p.m. (once<br/>monthly)</i><br>Earlsway, Weston Estate<br>(Tel. Macc. 3721)<br>Welfare Centre— <i>Fri. p.m.</i>                                                                                                      |
| Miss F. M. Yates<br>17, Newhall Street,<br>Macclesfield<br>(Tel. Macclesfield 5315)                                                            | Macclesfield M.B.<br>(South West District)                     | Sanders Square, Macclesfield<br>(Tel. Macc. 3800)<br>Welfare Centre— <i>Fri. p.m.</i><br>Young Children's Clinic— <i>2nd<br/>Thurs. p.m.</i><br>Ante-Natal Clinic— <i>4th Wed. p.m.</i><br>Preparation Class— <i>1st, 3rd and<br/>5th Mon. p.m.</i><br>Screening Clinic— <i>4th Wed. a.m.</i><br>Immunisation Clinic— <i>4th Thurs.<br/>p.m.</i><br>52 Bridge Street, Macclesfield<br>Ante-Natal Clinic— <i>1st Wed. p.m.</i><br>Hurdsfield House Macclesfield<br>(Tel. Macc. 3282)<br>Ante-Natal Clinic— <i>2nd Wed.<br/>p.m.</i><br>Screening Clinic— <i>2nd Wed. p.m.</i> |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

101.

Miss J. L. Walker,  
9, Gilchrist Ave.,  
Macclesfield

Macclesfield M.B.  
(North East District)

Hurdsfield House, Macclesfield  
Welfare Centre—*Thurs. p.m.*  
Young Children's Clinic—*1st*  
*Tues. p.*  
Ante-Natal Clinic—*2nd Wed. p.*  
Preparation Class—*1st & 5th*  
*Wed. p.*  
Immunisation Clinic—*3rd Tue*  
*p.*  
Sanders Square, Macclesfield  
Ante-Natal Clinic—*4th Wed. p.*  
52 Bridge Street, Macclesfield  
Ante-Natal Clinic—*3rd Wed. p.*

102.

Miss W.G. Grimstone  
Rockville,  
Cote Green Road,  
Marple Bridge.

Macclesfield M.B.  
(South East District)

Hurdsfield House, Macclesfield  
Welfare Centre—*Thurs. p.m.*  
Ante-Natal Clinic—*2nd Wed. p.*  
Preparation Class—*3rd Wed. p.*  
Screening Clinic—*2nd Wed. a.*  
Pierce Street, Macclesfield  
Eye Clinic—*1st Mon. p.m., 1st,*  
*3rd & 4th Tues. p.m. 4th Thur*  
*a.*  
Sanders Square, Macclesfield  
Ante-Natal Clinic—*4th Wed. p.*  
52 Bridge Street, Macclesfield  
Screening Clinic—*3rd Wed. a.*  
Audiology Clinic—*1st Wed. a.*  
(quarterly)

103.

Miss J. Samuels,  
11, Northgate Ave.,  
Macclesfield

Macclesfield M.B.  
(Central District)

52 Bridge Street, Macclesfield  
Welfare Centre—*Mon. p.m. a.*  
*2nd and 4th Thurs. a.*  
Young Children's Clinic—*4th*  
*Tues. p.*  
Ante-Natal Clinic—*1st & 3rd*  
*Wed. p.*  
Screening Clinic—*1st & 3rd We*  
*a.*  
Hurdsfield House, Macclesfield  
Preparation Class—*2nd and 4*  
*Wed. p.*

103a.

Miss E. M. Slack,  
70, Range Court,  
Hurdsfield Green,  
Macclesfield

Macclesfield M.B.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

. P. Swindells,  
linic Nurse

Pierce Street, Macclesfield  
M.A. Clinic—*Tues. & Fri. a.m.*

. B. Fletcher,  
linic Nurse

Pierce Street, Macclesfield  
M.A. Clinic—*Tues. & Fri. a.m.*  
Eye Clinic—*last Thurs. a.m.*  
Bridge Street, Macclesfield  
Ante-Natal Clinic—*1st & 3rd  
Wed. p.m.*  
Hurdsfield House, Macclesfield  
Ante-Natal Clinic—*2nd Wed. p.m.*  
Sanders Square, Macclesfield  
Ante-Natal Clinic—*4th Wed. p.m.*

s. E. O. Rae\*,  
39, High Street,  
larriseahead,  
toke-on-Trent

Sandbach U.D. (E. Ward)  
Arclid  
Brereton

Platt Avenue, Middlewich Road,  
Sandbach (Tel. Sandbach 970)  
Welfare Centre—*Tues. p.m. and  
2nd and 4th Tues. a.m.*  
Young Children's Clinic—*2nd  
Fri. a.m.*  
M.A. Clinic—*3rd Fri. a.m.*  
E.N.T. Clinic—*1st Mon. p.m.*  
Screening Clinic—*2nd & 4th  
Wed. a.m.*

s. H. Henderson\*,  
7, London Road,  
lworth, Sandbach

Sandbach U.D. (W. & N.  
Wards)  
Bradwall  
Elton

Platt Avenue, Middlewich Road,  
Sandbach  
Welfare Centre—*Tues. p.m. and  
1st and 3rd Tues. a.m.*  
Screening Clinic—*2nd & 4th  
Wed. a.m.*  
Eye Clinic—*2nd, 3rd & 4th Mon.  
p.m.*

These H.V. take the clinic opposite on rota.

Platt Avenue, Middlewich Road,  
Sandbach  
Preparation Class—*Fri. p.m.*

ss M. Corbishley\*  
12, Symondley Rd.,  
utton,  
Macclesfield

Congleton M.B.  
(Buglawton & South Wards)  
Moreton-cum-Alcumlow  
Newbold Astbury

Nursery Lane, Congleton  
(Tel. Congleton 2261)  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—*2nd  
Thurs. p.m.*  
Ante-Natal Clinic—*Fri. p.m.*  
Screening Clinic—*Wed. a.m.*  
Elderly Persons Clinic—*Wed. a.m.*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

107.

Mrs. M. M. Barwick,\* Congleton M.B.  
136, Nantwich Road, (North & West Wards)  
Crewe  
(Tel. Crewe 2706)

\*The Health Visitors take the Clinics listed opposite,  
alternately.

Nursery Lane, Congleton  
Welfare Centre—*Mon. p.m.*  
Screening Clinic—*Thurs. a.m.*

Nursery Lane, Congleton  
Young Children's Clinic—*2nd Thurs. p.*  
War Memorial Hospital, Congleton  
Ante-Natal Clinic—*1st & 3rd Wed. p.*

Mrs. A. M. Thursfield,  
Clinic Nurse

Nursery Lane, Congleton  
Welfare Centre—*Mon. p.m.*  
Eye Clinic—*2nd Mon. a.m.*  
E.N.T. Clinic—*last Tues. p.m.*  
Elderly Persons Clinic—*Wed. a.m.*  
Cyto Diagnostic Clinic—*Wed. p.*  
Screening Clinic—*Thurs. a.m.*  
Young Children's Clinic—*2nd Thurs. p.*  
Immunisation Clinic—*1st Thurs. a.*  
Ante-Natal Clinic—*Fri. p.m.*  
M.A. Clinic—*last Fri. a.m.*

108.

Mrs. M. B. Batty, Cheadle and Gatley U.D.  
15, Parrswood Court (Adswood Ward)  
Manchester 20,  
(Tel. Didsbury 6001)

Councillor Lane, Adswood (Tel. Gatley 44)  
Welfare Centre—*Mon. p.m.*  
Screening Clinic—*2nd & 4th Thurs. p.m.*  
Young Children's Clinic—*3rd Thurs. p.m.*  
Midwives Clinic—*1st & 3rd Wed. p.m.*  
Preparation Class—*Wed. p.m.*

109.

Miss G. Heald, Cheadle and Gatley U.D.  
199, Grange Ave., (Cheadle East & West Wards)  
Cheadle Hulme  
Stockport

Brookfield, Wilmslow Road, Cheadle (Tel. Gatley 62)  
Welfare Centre—*Tues. p.m.*  
Young Children's Clinic—*1st Thurs. p.m.*  
Screening Clinic—*2nd and 4th Wed. a.m.*  
Councillor Lane, Adswood  
Screening Clinic—*2nd and 4th Thurs. p.m.*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

|                                                                                        |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| s N. Heenan,<br>46, Edgeley Road,<br>Cheadle Heath,<br>Stockport                       | Cheadle and Gatley U.D.<br>(Gatley and Heald Green<br>(CE. Ward)) | Brookfield, Wilmslow Rd., Cheadle<br>Preparation Class— <i>Wed. p.m.</i><br>Y.M.C.A. Headquarters, Gatley<br>Welfare Centre— <i>Thurs. p.m.</i><br>Young Children's Clinic— <i>4th</i><br><i>Wed. p.m.</i><br>Screening Clinic— <i>1st Tues. a.m.</i>                                                                                                                                                                                 |
| A. Pointon,<br>Cavendish Rd.,<br>Heaton Mersey,<br>Stockport<br>Tel. Heaton Moor 3394) | Cheadle and Gatley U.D.<br>(Cheadle Hulme (N) Ward)               | St. Andrew's Parish Hall, Orrish-<br>mere Estate, Cheadle Hulme<br>Welfare Centre— <i>Mon. p.m.</i><br>Brookfield, Wilmslow Rd., Cheadle<br>Screening Clinic— <i>2nd and 4th</i><br><i>Wed. a.m.</i><br>Young Children's Clinic— <i>2nd</i><br><i>Thurs. p.m.</i><br>All Saints' Parish Room, Cheadle<br>Hulme<br>Screening Clinic— <i>2nd Tues. a.m.</i><br>Y.M.C.A. Headquarters, Gatley<br>Screening Clinic— <i>1st Tues. a.m.</i> |
| M. Rogers,<br>Irwin Drive,<br>Bramhall,<br>Wilmslow<br>Tel. Wilmslow 3702)             | Cheadle and Gatley U.D.<br>(Pt. Heald Green Ward<br>except CE)    | Queensway, Heald Green (Tel.<br>Mercury 2127)<br>Welfare Centre— <i>Thurs. a.m. and</i><br><i>p.m.</i><br>Screening Clinic— <i>Wed. a.m. (alt)</i><br>Young Children's Clinic— <i>Alt.</i><br><i>1st Wed. p.m.</i><br>Ante-Natal Clinic— <i>Fri. p.m.</i><br>Preparation Class— <i>Fri. p.m.</i>                                                                                                                                      |
| M. McLeod,<br>Brampton Road,<br>Bramhall,<br>Cheshire<br>Tel. Bramhall 2786)           | Cheadle and Gatley U.D.<br>(Cheadle Hulme (S) Ward)               | All Saints' Parish Room, Cheadle<br>Hulme<br>Welfare Centre— <i>Tues. p.m.</i><br>Screening Clinic— <i>2nd Tues. a.m.</i><br>Young Children's Clinic— <i>2nd</i><br><i>Wed. p.m.</i>                                                                                                                                                                                                                                                  |
| E. M.<br>McSweeney,<br>Shakespeare Dr.,<br>Cheadle<br>Tel. Gatley 3577)                | Cheadle and Gatley U.D.<br>(Pt. Heald Green Ward<br>except C.E)   | Queensway, Heald Green<br>Welfare Centre— <i>Thurs. a.m. and</i><br><i>p.m.</i><br>Young Children's Clinic— <i>1st</i><br><i>Wed. p.m. (alt.)</i><br>Screening Clinic— <i>Wed. a.m. (alt)</i>                                                                                                                                                                                                                                         |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

Mrs. H. Bannister  
Clinic Nurse

Brookfield, Wilmslow Road,  
Cheadle  
Eye Clinic—2nd, 4th and 5th  
Tues. a.m.  
E.N.T. Clinic—1st and 3rd Mon.  
a.m.  
Finney Lane, Heald Green  
Eye Clinic—1st & 3rd Tues. a.m.  
Adswold Clinic, Councillor Lane,  
Cheadle  
Eye Clinic—2nd Thurs. a.m.  
Welfare Centre—Mon. p.m.  
All Saints' Parish Room, Chester  
Hulme  
Eye Clinic—3rd Thurs. a.m.

## 115.

Miss G. M. Bullough\*† Hazel Grove and Bramhall  
4, Belvoir Avenue, U.D. (North Ward)  
Hazel Grove,  
Stockport

253, London Road, Hazel Grove  
(Tel. Stepping Hill 384)  
Screening Clinic—2nd & 4th  
Mon. p.m.  
Welfare Centre—Tues. a.m. &  
p.m.  
Young Children's Clinic—1st  
Tues. p.m.  
E.N.T. Clinic—2nd & 4th Mon.  
p.m.

## 116.

Mrs. B. E. Crosby,\* Hazel Grove & Bramhall U.D.  
27, Earle Road, (Woodford and South  
Bramhall, (DA, DB, DD, DE) Wards)  
Stockport  
(Tel. Bramhall 1776)

Methodist Sunday School, Bramhall  
all  
Welfare Centre—1st & 3rd Mon.  
p.m.  
Screening Clinic—1st Thurs. p.m.  
(odd months)  
Brookdale Club, Bridge Lane, Bramhall  
Screening Clinic—1st Fri. p.m.  
(even months)  
253 London Road, Hazel Grove  
Ante-Natal Clinic—1st & 3rd  
Wed. p.m.

## 117.

Miss A. Jackson,\*† Hazel Grove & Bramhall U.D.  
177, Park Lane, (East Ward (except EB))  
Poynton

253 London Road, Hazel Grove  
Screening Clinic—2nd & 4th Mon.  
p.m.  
Eye Clinic—1st & 4th Thurs. p.m.  
Welfare Centre—Tues. a.m. &  
p.m.  
Young Children's Clinic—1st  
Tues. p.m.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

|                                                                                                        |                                                                            |                                                                                                                                                                                                                                                                                                                                                                |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ss M. Joslin,*†<br>8, Henbury Street,<br>Great Moor,<br>Stockport                                      | Hazel Grove & Bramhall U.D.<br>(South (DC, DB, DF) and<br>East (EB) Wards) | Methodist Sunday School Bram-<br>hall<br>Welfare Centre— <i>Mon. p.m.</i><br><br>Brookdale Club, Bridge Lane,<br>Bramhall<br>Welfare Centre— <i>2nd &amp; 4th Fri.<br/>p.m.</i>                                                                                                                                                                                |
| ss. E. M. Lowe,*†<br>2, Mill Lane,<br>Hazel Grove,<br>Stockport<br>Tel. Poynton 2665)                  | Hazel Grove and Bramhall<br>U.D.                                           | 253, London Road, Hazel Grove<br><br>253, London Road, Hazel Grove<br>Elderly Persons Clinic— <i>Thurs.<br/>p.m.</i><br>Preparation Class— <i>Wed. p.m.</i>                                                                                                                                                                                                    |
| These Health Visitors attend the<br>Clinic opposite on rota<br>ditto                                   |                                                                            |                                                                                                                                                                                                                                                                                                                                                                |
| ss M. Berrisford,<br>19, Reddish Vale Rd.<br>Reddish,<br>Stockport<br>Tel. Stockport 5683)             | Bredbury & Romiley U.D.<br>(Bredbury N, W. & S. Wards)                     | Lower Bent's Lane, Bredbury<br>(Tel. Woodley 2892)<br>Welfare Centre— <i>Tues. p.m.</i><br>Young Children's Clinic— <i>1st<br/>Wed. p.m.</i><br>Ante-Natal Clinic— <i>Mon. p.m.</i><br>Screening Clinic— <i>2nd Wed. p.m.</i><br>Eye Clinic— <i>3rd, 4th &amp; 5th Fri.<br/>p.m.</i>                                                                           |
| ss. A. D. Law,<br>13, Lynton Drive,<br>Andrew Lane,<br>High Lane,<br>Stockport                         | Bredbury & Romiley U.D.<br>(Romiley, E. & W. &<br>Compstall Wards)         | Leyfield Avenue, Romiley (Tel.<br>Woodley 2891)<br>Welfare Centre— <i>Thurs. p.m.</i><br>Young Children's Clinic— <i>2nd<br/>Thurs. a.m.</i><br>Preparation Class— <i>Tues. p.m.</i><br>Screening Clinic— <i>4th Tues. a.m.</i><br>Immunisation Clinic— <i>1st Thurs.<br/>a.m.</i><br><br>Lower Bent's Lane Bredbury<br>Screening Clinic— <i>1st Mon. p.m.</i> |
| ss. J. Chapman,<br>1, Eskdale Avenue,<br>off Langdale Road<br>Woodley, Stockport<br>Tel. Woodley 3139) | Bredbury and Romiley U.D.<br>(Woodley Ward)                                | Methodist Sunday School,<br>Woodley<br>Welfare Centre— <i>2nd &amp; 4th Mon<br/>p.m.</i><br>Immunisation Clinic— <i>1st Mon.<br/>p.m.</i>                                                                                                                                                                                                                      |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

122.

Miss D. H. Garner,\* Stalybridge M.B.  
572, Huddersfield Rd. (Polling Districts FA, FC,  
Stalybridge GA, GB)

Huddersfield Road, Millbrook,  
Stalybridge (Tel. STA 25)  
Welfare Centre—*Mon. p.m.*  
Preparation Class—*Wed. p.m.*  
Stamford St., Stalybridge (Tel.  
STA 22)  
Welfare Centre—*Tues. p.m.*

123.

Miss M.E. Mackenzie\* Stalybridge M.B.  
33, Thorn Road, (Polling Districts FB, FE,  
Bramhall, Stockport GE)

Stamford Street, Stalybridge  
Welfare Centre—*Tues. & Wed.*

124.

Miss S. E. Howarth\*, Stalybridge M.B.  
48, Wilshaw Grove, (Polling districts GD, GC,  
Ashton-under-Lyne GF.)

Stamford Street, Stalybridge  
Welfare Centre—*Wed. p.m.*  
Eye Clinic—2nd, 3rd & 4th Fls.

\*These Health Visitors also attend on rota the other  
Clinics opposite.

Huddersfield Road, Millbrook  
Welfare Centre—*Mon. p.m.*  
Stamford Street, Stalybridge  
Young Children's Clinic—1st  
*Wed.*  
Preparation Class—*Thurs. p.m.*  
M.A. Clinic—*Mon. a.m.*  
Screening Clinic—*Thurs. a.m.*

125.

Miss W. E. Beresford\*, Dukinfield M.B.  
87, Manchester Rd., (Polling Districts AA, AB,  
Tintwistle, AC, BB)  
Hyde, Cheshire

134 King Street, Dukinfield  
(Tel. Ash 34)  
Welfare Centre,—*Wed. p.m.*  
Dewsnap Lane, Dukinfield  
(Tel. Ash 50)  
Welfare Centre—*Thurs. p.m.*  
Screening Clinic—1st & 3rd  
*Wed. p.m.*

126.

Dukinfield M.B.  
(Polling Districts AE, AF.)  
Stalybridge M.B. (FD)

134 King Street, Dukinfield  
E.N.T. Clinic—4th *Tues. p.m.*  
Eye Clinic—1st, 2nd & 4th Fls.

127.

Mrs. M. Knowles\*, Dukinfield M.B.  
189 Stamford Str., (Polling Districts AD, BA)  
Stalybridge

134 King Street, Dukinfield  
Welfare Centre—*Wed. p.m.*  
M.A. Clinic—*Tues. a.m.*  
Dewsnap Lane, Dukinfield  
Screening Clinic—1st & 3rd Fls.

\*The Clinic opposite is taken by the above Health  
Visitors in turn.

Dewsnap Lane, Dukinfield  
Preparation Class—*Mon. p.m.*

| CIVIL PARISHES                                                                           | CENTRES & CLINICS                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| s D. Wood,<br>s, Marina Drive,<br>ose Hill,<br>larple,<br>tockport<br>Tel. Mottram 3235) | <p>Longdendale U.D.<br/>(excluding Mottram Ward)<br/>Tintwistle R.D.</p> <p>Wedneshough Green, Holling-<br/>worth (Tel. Mottram 2280)<br/>Welfare Centre—1st &amp; 3rd Thurs.<br/>p.m.</p> <p>Midwives Clinic—Tues. p.m.<br/>M.A. Clinic—Tues. p.m.<br/>Immunisation Clinic—4th Mon.<br/>p.m.</p> <p>Christ Church School, Tintwistle<br/>Welfare Centre—2nd &amp; 4th<br/>Thurs. p.m.</p> <p>Wesleyan School, Broadbottom<br/>Welfare Centre—1st &amp; 3rd Wed.<br/>p.m.</p> |
| s M. Taylor*,<br>0, Primrose Ave.,<br>Hyde<br>Tel. Hyde 3207)                            | <p>Hyde M.B.<br/>(Werneth Ward, part 1 &amp; 2)</p> <p>Parsonage Street, Hyde (Tel. Hyde<br/>2828)</p> <p>Welfare Centre—Wed. p.m.<br/>Screening Clinic—2nd &amp; 4th<br/>Tues. a.m.</p> <p>Ante-Natal Clinic—Thurs. p.m.<br/>Methodist Sunday School, Gee<br/>Cross, Hyde<br/>Welfare Centre—Mon. p.m.</p>                                                                                                                                                                   |
| *                                                                                        | <p>Hyde M.B.<br/>(Godley Ward, parts 2 &amp; 4)</p> <p>Bayley Hall, Hyde (Tel. Hyde<br/>2265)</p> <p>Welfare Centre—Fri. p.m.<br/>Screening Clinic—1st &amp; 3rd Mon.<br/>p.m.</p>                                                                                                                                                                                                                                                                                            |
| a.                                                                                       | <p>Hyde M.B.<br/>(Godley Ward parts 1, 3, 6, 7)</p> <p>Parsonage Street, Hyde<br/>Welfare Centre—Wed. p.m.<br/>Screening Clinic—2nd &amp; 4th<br/>Tues. a.m.</p> <p>Methodist Sunday School, Gee<br/>Cross, Hyde<br/>Welfare Centre—Mon. p.m.<br/>Reform Club, Hyde<br/>Eye Clinic—1st Tues. p.m., and<br/>3rd Fri. p.m.</p>                                                                                                                                                  |
| . M. Harris*,<br>3, Brabyn's Road,<br>ee Cross, Hyde<br>Tel. Hyde 4511)                  | <p>Hyde M.B.<br/>(Werneth Ward,<br/>parts 3, 4, 5, 6)</p> <p>Bayley Hall, Hyde<br/>Welfare Centre—Tues. p.m.<br/>Screening Clinic—1st and 3rd<br/>Mon. p.m.</p>                                                                                                                                                                                                                                                                                                               |
| 1.<br>. M. Sherratt,<br>, Brabyn's Road,<br>ee Cross,<br>yde                             | <p>Hyde M.B.<br/>(Newton Ward parts 1, 2, 3)</p> <p>Bayley Hall, Hyde<br/>Welfare Centre—Tues. p.m.<br/>Screening Clinic—1st and 3rd<br/>Mon. p.m.</p>                                                                                                                                                                                                                                                                                                                        |

## CIVIL PARISHES

## CENTRES &amp; CLINICS

132.

Mrs. J. Beaumont\*,  
Homestead,  
Greave Road,  
Romiley,  
Stockport

Hyde M.B.  
(Godley Ward parts 2 & 4)

230, Hattersley Road, W.,  
Hattersley  
Welfare Centre—*Thurs. p.m.*  
Bayley Hall, Hyde  
Screening Clinic—*1st & 3rd Mon.*  
  
Welfare Centre—*Fri. p.m.*  
Reform Club, Hyde  
M.A. Clinic—*Mon. a.m.*

\*These health visitors also take on rota the  
clinic opposite.

133.

Miss M. M. Humphries  
19, Crescent Close,  
Davenport,  
Stockport

Hyde M.B.  
(Godley Ward Parts 3 & 5)  
Longdendale U.D.  
(Mottram Ward)

230, Hattersley Road, W., Hy  
Welfare Centre—*Thurs. p.*  
Ante-Natal Clinic—*Wed. p.m.*

134.

Miss B. F. Sherratt,  
Ashdene,  
Leafield Road,  
Disley, Stockport  
(Tel. Disley 2268)

Marple U.D.  
(Mellor & North Wards)

Memorial Park, Stockport Roa  
Marple (Tel. Marple 1  
Welfare Centre—*Wed. p.m.\**  
Screening Clinic—*4th Wed.*  
Methodist Sunday School, M  
Welfare Centre—*1st & 3rd*  
*Thurs.*

135.

Miss B. Brewster,  
Spout House Farm,  
Strines,  
Stockport  
(Tel. Marple 1494)

Marple U.D.  
(South Ward)  
Disley R.D.

Memorial Park, Stockport Ro  
M  
Welfare Centre—*Wed. p.m.\**  
Screening Clinic—*4th Wed.*  
Village Hall, High Lane  
Welfare Centre—*2nd & 4th*  
*Tues.*  
Gleneil House, Disley (Tel. I  
(  
Welfare Centre—*1st & 3rd*  
*Wed.*  
St. Mary's Sunday School, I  
Midwives Clinic—*Mon. p.*

136.

Miss E. Evans,  
23, Bossington Close,  
Offerton,  
Stockport

Marple U.D.  
(Ludworth and Central  
Wards)

Women's Institute, Marple  
Idg  
Welfare Centre—*2nd & 4th*  
*Thurs. p.m.*  
Memorial Park, Stockport Ro  
M  
Welfare Centre—*Wed. p.m.*  
Screening Clinic—*4th Wed. m.*

\*The three Health Visitors take these two clinics on rota

# HOME NURSES (181)

(Those marked \* practise Midwifery)

| <i>District</i> | <i>Nurse</i>                          | <i>Address</i>                                                | <i>Tel. No</i>   |       |
|-----------------|---------------------------------------|---------------------------------------------------------------|------------------|-------|
| Acton           | Miss L. C. Jones*<br>(101)            | Council Bungalows,<br>12, Wilbraham Close, Acton,<br>Nantwich | Nantwich         | 65571 |
| Alldington      | Mrs. K. A. Dawson*<br>(102)           | Butley Hey, London Road,<br>Prestbury, Macclesfield           | Prestbury        | 89360 |
| Alderley        | Mrs. M. Topley*<br>(103)              | Tara, Orchard Crescent, Welsh<br>Row, Nether Alderley         | Alderley<br>Edge | 2505  |
| Alderley Edge   | Miss M. M. Hatton*<br>(104)           | Holly Croft, Row of Trees,<br>Alderley Edge, Cheshire         | Alderley<br>Edge | 3364  |
| Aldford         | Mrs. D. Mellor*<br>(105)              | Nurse's Cottage, Aldford, Chester                             | Aldford          | 37    |
| Alsager         | Mrs. E. Weatherall                    | 25, Cresswellshawe Road,<br>Alsager, Stoke on Trent           | Alsager          | 67    |
| Altrincham      | Mrs. A. Coombs                        | 12, Lynton Grove, Timperley                                   | Ringway          | 6970  |
|                 | Miss D. Kershaw                       | 2a, Malton Drive, Oldfield Brow,<br>Altrincham                | Altrincham       | 5720  |
|                 | Miss A. B. M.<br>Doherty              | 212a, Ashley Road, Hale,<br>Altrincham                        | Altrincham       | 6523  |
|                 | Mrs. J. Knowles                       | Flat 2, Oak Dell, Alan Drive,<br>Hale, Altrincham             | Ringway          | 6903  |
|                 | Mrs. S. J. McGrath                    | 8, Westminster Road, Hale,<br>Altrincham                      | Ringway          | 7230  |
|                 | Miss K. T. Burke                      | 3, Barrington Road, Altrincham                                | Altrincham       | 6988  |
|                 | Mrs. A. Warburton                     | Montafon, Vicarage Lane,<br>Bowdon, Altrincham                | Altrincham       | 0138  |
| Ashton          | Miss M. McClement-<br>Williams* (106) | District Nurse's Home, Smithy<br>Lane, Mouldsworth, Chester   | Manley           | 268   |
| Astbury         | Miss V. Spencer*<br>(107)             | Black & White Cottage,<br>Astbury, Congleton                  | Congleton        | 3451  |
| Audlem          | Miss M. H. Hunter*<br>(108)           | The Gables, Audlem, Crewe                                     | Audlem           | 422   |
| Barnton         | Mrs. S. A. Cash*<br>(109)             | Cherry Lodge, Beacon Lane,<br>Heswall, Wirral                 | Heswall          | 4037  |
| Barnton         | Mrs. S. M. Dorling*<br>(110)          | 30, Hayes Drive, Barnton,<br>Northwich                        | Northwich        | 4080  |
| Barrow          | Miss G. Jones*<br>(111)               | Minniffordd, High Street, Tarvin,<br>Chester                  | Tarvin           | 240   |
|                 | Mrs. B. Whitehead                     | Cartref, Whitegate Lane, Ashton,<br>Chester                   | Kelsall          | 439   |
| Bebington       | Mr. E. Cochrane                       | 215, Teehey Lane, Bebington                                   | Mountwood        | 3516  |
|                 | Mrs. A. Davies                        | 216, Higher Bebington Road,<br>Higher Bebington, Wirral       | Mountwood        | 1840  |
|                 | Mrs. I. M. Eden                       | 5, Anscol Avenue, Bebington,<br>Wirral                        | Rock Ferry       | 1925  |
|                 | Miss M. G. Griffiths                  | 10, Kempson Terrace, Bebington                                | Bromborough      | 2480  |
|                 | Mrs. F. E. Harrison                   | 14, Asterfield Avenue,<br>Higher Bebington, Wirral            | Rock Ferry       | 2441  |
|                 | Mrs. M. R. Heatley                    | 203, Teehey Lane, Bebington                                   | Mountwood        | 1126  |
|                 | Mrs. B. Sturdy                        | 79, Townfield Lane, Bebington                                 | Rock Ferry       | 5341  |
| Blackerton      | Mrs. B. A. Moss*<br>(112)             | 20, Mill Grove, Bulkeley, Malpas<br>Cheshire                  | Cholmondeley     | 217   |
| Bollington      | Miss A. Barlow*<br>(113)              | 13, Waterhouse Avenue,<br>Bollington, Macclesfield            | Bollington       | 3179  |
|                 | Mrs. M. M.<br>Brocklehurst*<br>(113a) | Sidmere, Dale Brow, Prestbury,<br>Macclesfield                | Prestbury        | 89811 |
|                 | Mrs. M. Wood                          | Ingersley Vale Cottages, Bollington<br>Macclesfield           | Bollington       | 3204  |

# HOME NURSES (contd.)

| <i>District</i> | <i>Nurse</i>                 | <i>Address</i>                                     | <i>Tel. No.</i>  |     |
|-----------------|------------------------------|----------------------------------------------------|------------------|-----|
| Bramhall        | Miss N. D. Entwistle* (114a) | 81, Ack Lane East, Bramhall, Stockport             | Bramhall         | 237 |
|                 | Mr. D. Hornby                | 126, Moor Lane, Woodford, Bramhall, Stockport      | Bramhall         | 169 |
|                 | Mrs. C. M. Renshaw* (114b)   | 33, Lumb Lane, Bramhall Stockport                  | Bramhall         | 355 |
|                 | Miss K. H. Walsh* (114c)     | 39 Midland Road, Bramhall, Stockport               | Bramhall         | 488 |
| Bredbury        | Mrs. S. A. Christmas         | 9, Merton Avenue, Bredbury Stockport               | Woodley          | 377 |
|                 | Mrs. G. B. Gorick            | 12, Etherow Avenue, Romiley, Stockport             | Marple           | 353 |
|                 | Miss E. E. Phillips          | 404, Stockport Road, Denton, Manchester            | Denton           | 418 |
| Bromborough     | Miss F. Baughan              | 10, Greenville Crescent, Bromborough, Wirral       | Bromborough      | 343 |
|                 | Mrs. E. Martlew              | 2, Kelsall Avenue, Eastham, Wirral                 | Eastham          | 260 |
| Buglawton       | Miss M. S. Bowman* (115)     | 4, High Lowe Avenue, Buglawton, Congleton          | Congleton        | 344 |
| Bunbury         | Miss M. P. M. Feehan* (116)  | The Oak, Bunbury Lane, Bunbury, Tarporley          | Bunbury          | 29  |
| Burton          |                              | (117)                                              |                  |     |
| Cheadle         |                              | Pear Tree Cottage, Burton, Neston, Wirral          | Burton           | 23  |
|                 | Mrs. W. Wareing* (118)       | 6, Waldon Avenue, Cheadle, Cheshire                | Gatley           | 390 |
|                 | Miss L. Broadhurst           | 22, Ravenoak Road, Cheadle Hulme, Stockport        | Hulme Hall       | 299 |
|                 | Mrs. H. M. Jackson           | 44, Cheadle Road, Cheadle Hulme, Stockport         | Hulme Hall       | 342 |
|                 | Mr. K. Topley                | Tara, Orchard Crescent, Welsh Row, Nether Alderley | Alderley Edge    | 250 |
| Cheadle Hulme   | Mrs. J. Wills                | 15, Lingdale Road, Cheadle Hulme                   | Hulme Hall       | 22  |
|                 | Mrs. V. Marshall             | 27, Henley Avenue, Cheadle Hulme                   | Hulme Hall       | 37  |
|                 | Mrs. F. M. Pierlejewska      | 41, Earle Road, Bramhall, Stockport                | Bramhall         | 29  |
| Chelford        |                              |                                                    |                  |     |
| Cholmondeley    | Miss M. Brocklehurst* (121)  | Nurse's Cottage, Bickley Moss, Whitchurch          | Cholmondeley     | 2   |
| Combermere      | Miss W. A. George* (122)     | 1, Council Houses, Newhall Lane, Aston, Nantwich   | Aston (Nantwich) | 2   |
| Congleton       | Mrs. B. Morris               | 24, The Westlands, Congleton                       | Congleton        | 21  |
| Crewe           | Mrs. E. M. Bailey            | 27, Franklyn Avenue, Crewe                         | Crewe            | 46  |
|                 | Mrs. A. M. Probert           | 9, Coronation Avenue, Alsager                      | Alsager          | 33  |
|                 | Mrs. M. Beckett              | 66, Charlesworth Street, Crewe                     | Crewe            |     |
|                 | Mrs. K. M. Ashmore           | 329, Stoneley Road, Coppenthall                    | Crewe            | 556 |
|                 | Mrs. H. M. Shaw              | 9, Buxton Avenue, Crewe                            | Crewe            | 34  |
|                 | Mrs. C. M. Sigley            | 149, Nantwich Road, Crewe                          | Crewe            | 36  |
| Daresbury       | Mrs. J. M. Cunningham* (123) | Delph Cottage, Daresbury, Warrington               | Moore            | 2   |

# HOME NURSES (contd.)

| District       | Nurse                           | Address                                                | Tel. No.              |       |
|----------------|---------------------------------|--------------------------------------------------------|-----------------------|-------|
| Davenham       | Miss M. Buckley*<br>(124)       | 437, London Road, Davenham,<br>Northwich               | Northwich             | 3027  |
| Elamere        | Miss D. E. Joseph*<br>(125)     | Wayside, Cotebrook, Tarporley,<br>Cheshire             | Little<br>Budworth    | 391   |
| Disley         | Mrs. M. G. Rolls*<br>(126)      | 7, Bentside, Disley, Stockport                         | Disley                | 2176  |
| Eccleston      | Mrs. B. E. Whiston*<br>(127)    | 115, Stock Lane,<br>Wybunbury, Nantwich                | Wybunbury             | 329   |
| Eccleston      | Mrs. M. E. Pilliner*<br>(128)   | "Omega", Eaton Road, Eccleston,<br>Chester             | Eccleston             | 200   |
| Dukinfield     | Miss E. M. Ambler               | 212, Astley Street, Dukinfield                         | Ashton                | 1689  |
|                | Miss O. Morton                  | 28, Kenyon Avenue, Dukinfield                          | Stalybridge           | 2562  |
| Davenham       | Mrs. O. Chapman                 | 43, Bucklow Avenue, Partington,<br>Urmston, Manchester | Irlam                 | 2264  |
| Ellesmere      | Mrs. A. Engstrom                | 66, Queen Street, Ellesmere Port                       | E. Port               | 2543  |
| Ellesmere Port | Mrs. F. Massey                  | 1, Woodsome Drive, Whitby,<br>Ellesmere Port           | Ellesmere<br>Port     | 2437  |
|                | Miss M. I. Raby                 | 12, Thamesdale, Whitby, Wirral                         | E. Port               | 2542  |
|                | Mrs. I. Palombella*<br>(129)    | 14, Whitefields, Elton, Chester                        | Thornton-le-<br>Moors | 368   |
| Farndon        | Mrs. K. E. Barlow*<br>(130)     | 14, Parker Drive, Farndon,<br>Chester                  | Farndon               | 286   |
| Frodsham       | Mrs. A. V. Burke*<br>(131)      | 10, Kingsway, Frodsham                                 | Frodsham              | 2109  |
|                |                                 | 19, Clifton Crescent, Frodsham,<br>Warrington          | Frodsham              | 2235  |
|                | Mrs. C. L. Ormsby*<br>(131a)    | 10, Fountain Lane, Frodsham,<br>Warrington             | Frodsham              | 2027  |
| Gawsworth      | Mrs. A. Parsons*<br>(132)       | Newlands, Woodhouse Lane,<br>Gawsworth, Macclesfield   | Macclesfield          | 2187  |
| Goostrey       | Mrs. M. W. Yarnold*<br>(133)    | 24, Booth Bed Lane, Goostrey,<br>Crewe                 | Holmes<br>Chapel      | 3244  |
| Grappenhall    | Mrs. D. I. Reeves               | 29, Kildonan Road, Grappenhall,<br>Warrington          | Warrington            | 63776 |
| Heswall        | Mrs. E. Burgess*<br>(134)       | Dunkerry, Gibb Hill, Antrobus,<br>Northwich            | Comberbach            | 400   |
| Runcorn        | Miss A. B. Porter*<br>(135)     | 47, Main Street, Halton, Runcorn                       | Runcorn               | 2597  |
| Haslington     | Miss D. Williams*<br>(136)      | 33, Cartwright Road, Haslington,<br>Crewe              | Crewe                 | 2693  |
| Hazel Grove    | Miss W. M. Curtis*<br>(137)     | 62, Talbot Street, Hazel Grove<br>Stockport            | Stepping Hill         | 2292  |
|                | Miss S. E. Ratcliffe*<br>(137a) | 62, Talbot Street, Hazel Grove,<br>Stockport           | Stepping Hill         | 2292  |
|                | Mrs. M. J. Sibbitt              | 18, Linda Drive, Hazel Grove,<br>Stockport             | Stepping Hill         | 1185  |
| Helsby         | Mrs. N. E. Stewart*<br>(138)    | Thorns, Alvanley Road, Helsby<br>Warrington            | Helsby                | 2143  |
| Heswall        | Miss C. M. Edwards*<br>(139)    | 1, Shrewsbury Road, Heswall,<br>Wirral                 | Heswall               | 710   |
| Sutton         | Miss M. M. Brown*<br>(140)      | 53, Walker Lane, Sutton,<br>Macclesfield               | Sutton                | 363   |
| Marple         | Mrs. J. Banks*<br>(141)         | Hill View, Windlehurst Road,<br>Hawthorn, Marple       | Marple                | 2385  |
|                | Mrs. C. W. M. Woof              | 2, Chatworth Road, High Lane,<br>Stockport             | Disley                | 2790  |
| Mottram        | Mrs. M. A. Clarke               | 29, Heather Grove,<br>Hollingworth, Hyde               | Mottram               | 2346  |

# HOME NURSES (contd.)

| <i>District</i> | <i>Nurse</i>                  | <i>Address</i>                                                  | <i>Tel. No.</i> |
|-----------------|-------------------------------|-----------------------------------------------------------------|-----------------|
| Holmes Chapel   | Miss L. B. Blunsum*<br>(142)  | 19, West Way, Holmes Chapel,<br>Crewe                           | H. Chapel 22    |
| Hoylake         | Miss E. J. Cubbin*<br>(143)   | 20, Bispham Drive, Meols                                        | Hoylake 22      |
|                 | Miss E. Foster*<br>(143a)     | 9, Airlie Road, Hoylake                                         | Hoylake 29      |
|                 | Miss J. Howes                 | 27, Burlingham Avenue, Grange,<br>West Kirby                    | Caldy 72        |
|                 | Mrs. D. Macrae                | 42, Greenway, Greasby, Wirral                                   | Arrowebrook 12  |
|                 | Mrs. J. DeValve               | 17, Derwent Road, Meols, Wirral                                 | Hoylake 21      |
| Hyde            | Miss G. McClean               | 17, Henry Street, Hyde                                          | Hyde 24         |
|                 | Miss H. Sutton                | 17, Henry Street, Hyde                                          | Hvde 24         |
|                 | Miss E. Ramsden               | 27, King George Road, Hyde                                      | Hyde 26         |
|                 | Miss E. Palfreyman*<br>(177)  | The Cottage Flat,<br>No. 1, Milverton Walk,<br>Hattersley, Hyde | Mottram 22      |
| Irby            | Mrs. D. Davison*<br>(144)     | 26, Corneliu Drive, Pensby,<br>Heswall, Wirral                  | Irby 16         |
|                 | Miss M. E. Herbert*<br>(144a) | 10, Greenway, Pensby, Heswall,<br>Wirral                        | Irby 17         |
|                 | Mrs. J. Jones                 | 12, Forest Road, Heswall, Wirral                                | Heswall 11      |
| Knutsford       | Mrs. M. O. Stone*<br>(145)    | 46, Townfields, Knutsford                                       | Knutsford 22    |
|                 | Mrs. M. L. Buckley*<br>(145a) | 7, Ascol Drive, Plumley,<br>Knutsford                           | Northwich 20    |
| Little Leigh    | Miss E. M. Fishwick*<br>(146) | 14, Brakeley Lane, Little Leigh,<br>Northwich                   | Comberbach 2    |
| Little Sutton   | Mrs. V. Sandbach              | 23, Hillcrest Road, Little Sutton,<br>Wirral                    | Hooton 21       |
| Lostock Gralam  | Mrs. F. Fuller                | Avondale, 1, Griffiths Road,<br>Lostock Gralam, Northwich       | Northwich 30    |
| Lymm            | Mrs. A. B. James              | 26, Highfield Road, Lymm,<br>Cheshire                           | Lymm 1          |
|                 | Mrs. G. Shaw                  | 10, Albany Grove, Statham,<br>Lymm, Cheshire                    | Lymm 1          |
| Macclesfield    | Mrs. J. Bridge                | The Cottage, Parkmount Drive,<br>Macclesfield                   | Macclesfield 6  |
|                 | Miss A. K. Keates             | 28, Berwick Close, Upton Priory,<br>Macclesfield                | Prestbury 88    |
|                 | Mrs. M. Earlam                | 50, Gawsword Road,<br>Macclesfield                              | Macclesfield 4  |
|                 | Mrs. P. V. Moores             | 11, Rainow Road, Higher<br>Hurdsfield, Macclesfield             | Macclesfield 5  |
|                 | Mrs. M. Leonard               | 62, Merebrook Road, Weston,<br>Macclesfield                     |                 |
| Malpas          | Mrs. D.M.T. Brooks*<br>(147)  | 15, The Oathills, Malpas                                        | Malpas 6        |
| Marple          | Mrs. L. Clachrie*<br>(148)    | Redwood, 16, Waterside Road,<br>Marple, Stockport               | Marple 16       |
| Marple Bridge   | Miss N. Greenleaf*<br>(149)   | The Cottage, 66, Lower Fold,<br>Marple Bridge, Stockport        | Marple 26       |
| Marston         | Mrs. W. G. Hudson*<br>(150)   | 20, Mere Road, Marston,<br>Northwich                            | Comberbach 5    |
| Middlewich      | Miss B. Breeze*<br>(151)      | 11, Coronation Road, Middlewich                                 | Middlewich 29   |
|                 | Mrs. M. Taylor*<br>(151a)     | 32, Sutton Lane, Middlewich                                     | Middlewich 20   |

# HOME NURSES (cont.)

| <i>District</i> | <i>Nurse</i>                 | <i>Address</i>                                         | <i>Tel. No.</i>  |
|-----------------|------------------------------|--------------------------------------------------------|------------------|
| obberley        | Mrs. B. Horry*<br>(152)      | 9, Tatton Stile, Mobberley,<br>Knutsford               | Mobberley 3132   |
| ottram          | Miss W. Watkins              | 37, Old Road, Tintwistle                               |                  |
| oulton          | Miss V. R. Watts*<br>(153)   | 11, Regent Street, Moulton,<br>Northwich               | Winsford 2346    |
| antwich         | Miss E. Larnach*<br>(154)    | 20, Shrewbridge Crescent,<br>Nantwich                  | Nantwich 65294   |
|                 | Miss M. Mansfield*<br>(154a) |                                                        |                  |
| orley           | Miss I. E. Belsham*<br>(155) | Nurse's Bungalow, Crabmill Lane,<br>Norley, Warrington | Kingsley 265     |
| orthwich        | Mrs. P. M. Waterman          | 7, Kingsway, Northwich                                 | Northwich 3707   |
|                 | Mr. W. Hudson                | 20, Mere Road, Marston,<br>Northwich                   | Comberbach 425   |
|                 | Mrs. P. E. Mounsey           | 228, Chester Road, Hartford,<br>Northwich              | Northwich 5083   |
|                 | Mrs. I. Owen                 | Dinastre, Lime Avenue, Leftwich,<br>Northwich          | Northwich 3093   |
| dd Rode         | Miss H. Barry*<br>(156)      | 2, Drenfell Road, Scholar Green,<br>Stoke-on-Trent     | Kidsgrove 2929   |
| oynton          | Miss A. Cheetham*<br>(157)   | 82, Barnaby Road, Poynton,<br>Stockport                | Poynton 2137     |
|                 | Miss I. Evans*<br>(176)      | 65, Oak Grove, Poynton,<br>Stockport                   | Poynton 4277     |
|                 | Mrs. D. M. Shaw*<br>(157a)   | 28, Holly Road, Poynton                                | Poynton 2771     |
| restbury        | Miss A. M. Garry*<br>(158)   | 18, Bollin Grove, Prestbury,<br>Macclesfield           | Prestbury 89464  |
| ainow           |                              | Oakwood, Chapel Lane, Rainow,<br>Macclesfield          | Bollington 2184  |
| uncorn          | Mrs. F. Fowles               | 26, Hazel Avenue, Runcorn                              | Runcorn 2849     |
|                 | Mrs. J. E. Livesey           | Wivenhoe, Clifton Road, Runcorn                        | Runcorn 3260     |
|                 | Mrs. A. A. Marsh             | 27, Perrin Avenue,<br>Weston Point, Runcorn            | Runcorn 3730     |
| ale             |                              | 26, Grove Lane, Timperley                              | Ringway 6263     |
|                 | Mrs. S. Bruce                | 14, St. George's Crescent,<br>Timperley, Altrincham    | Sale 5981        |
|                 | Mrs. E. Hedgman              | 9, Marsden Drive, Timperley,<br>Altrincham             | Ringway 4156     |
|                 | Miss B. Kitchen              | 13, Harcourt Road, Sale,<br>Cheshire                   | Sale 5764        |
| andbach         | Mrs. I. Hoyle*<br>(160)      | 9, Offley Avenue, Sandbach                             | Sandbach 852     |
|                 | Mrs. M. Wainwright           | 87, Platt Avenue, Sandbach                             | Sandbach 256     |
| andiway         | Miss S. Rhodes*<br>(161)     | The Cottage, Glebe Road,<br>Cuddington, Northwich      | Sandiway 2252    |
| aughall         |                              | 9, Lodge Lane, Saughall,<br>Chester                    | Saughall 200     |
| havington       | Mrs. E. N. Feather           | 12, Burlea Drive, Rope Lane,<br>Shavington, Crewe      | Crewe 67234      |
| talybridge      | Mr. J. E. Billings           | 21, Shakespeare Avenue,<br>Millbrook, Stalybridge      | Stalybridge 2315 |
|                 | Mrs. B. Scott                | 7, Wakefield Road, Stalybridge                         | Stalybridge 3000 |
|                 | Miss M. E. Fitzgerald        | 1, Fitzroy, Street, Millbrook,<br>Stalybridge          | Stalybridge 3506 |
|                 | Mrs. A. R. Porter            | 27, Copley Avenue,<br>Stalybridge                      | Stalybridge 3188 |

# HOME NURSES (contd.)

| <i>District</i>       | <i>Nurse</i>                     | <i>Address</i>                                        | <i>Tel. No.</i> |
|-----------------------|----------------------------------|-------------------------------------------------------|-----------------|
| Stapeley              | Miss E. Reilly*<br>(163)         | 22, Jackson Avenue, Nantwich                          | Nantwich 655    |
| Stockton<br>Heath     | Miss W. Maher                    | 44, Whitfield Avenue, Bruche,<br>Warrington           | Warrington 317  |
|                       | Miss V.E. O'Donnell              | 104, Fairfield Road, Stockton<br>Heath, Warrington    | Warrington 64   |
|                       | Mrs. O. Holbrook                 | 86, Grappenhall Road, Stockton<br>Heath, Warrington   | Warrington 629  |
| Stretton              | Mrs. K. Newstead                 | 3, Beverley Avenue, Appleton,<br>Warrington           | Warrington 647  |
| Tarporley             | Mrs. M. Stewart*<br>(165)        | 10, Eaton Road, Tarporley                             | Tarporley 5     |
| Tattenhall            | Mrs. D. M. Harper*<br>(166)      | 76, Tattenhall Road, Tattenhall,<br>Chester           | Tattenhall 3    |
| Tilston               | Mrs. I. A. Haynes*<br>(167)      | Fern Lea, Tilston, Malpas,<br>Cheshire                | Tilston 2       |
| Timperley             | Miss J. Ferguson                 | 10, Thorley Drive, Timperley,<br>Altrincham           | Ringway 21      |
|                       | Miss M. B. McGrath               | 34, Keswick Road, Timperley,<br>Altrincham            | Ringway 29      |
| Upton                 | Mrs. E. C. Iball                 | 73, Upton Drive, Upton-by-<br>Chester                 | Chester 278     |
| Vicars Cross          | Mrs. R. I. Croome                | 40, Vicars Cross, Chester                             | Chester 415     |
| Weaverham             | Miss M. J. Clinton               | Cartref, West Road, Weaverham,<br>Northwich           | Weaverham 22    |
|                       | Mrs. E.L.L. Hampson              | Sunfield, Forest Road,<br>Cuddington, Northwich       | Sandiway 21     |
| Wheelock              | Miss A. P. Curzon*<br>(168)      | 647, Crewe Road, Wheelock,<br>Sandbach                | Sandbach 2      |
| Willaston<br>(Wirral) | Miss G. Lloyd*<br>(169)          | The Grey Cottage, Hooton Rd.,<br>Willaston, Wirral    | Willaston 21    |
| Willington            | Mrs. M. S. Vickers*<br>(170)     | 9, Carter Avenue, Kelsall,<br>Chester                 | Kelsall 2       |
| Wilmslow              | Miss E. B.<br>Grindrod*<br>(171) | 23, King's Close, Wilmslow,<br>Cheshire               | Wilmslow 55     |
|                       | Miss D. I. Hooper                | 17, Pickmere Road, Handforth,<br>Wilmslow, Cheshire   | Wilmslow 43     |
|                       | Miss P. I. Royle*<br>(171a)      | 17, Bourne Street, Wilmslow,<br>Cheshire              | Wilmslow 26     |
| Winsford              | Miss I. A. Bremner*<br>(172)     | 204, Ways Green, Winsford,<br>Cheshire                | Winsford 25     |
|                       | Miss P. M. Jones*<br>(172a)      | 8, Wellfield, Wharton Road,<br>Winsford, Cheshire     | Winsford 27     |
|                       | Miss I. Woodward*<br>(172b)      | 2, Sycamore Avenue, Dene<br>Estate, Winsford          | Winsford 21     |
| Wistaston             |                                  | 34, Elm Close, Wistaston, Crewe,<br>Cheshire          | Crewe 24        |
| Worleston             | Mrs. R. E. Fort*<br>(174)        | Laundry Cottage, Rookery Park,<br>Worleston, Nantwich | Nantwich 659    |

## Full-time Relief Nurses

|                    |                                                |        |      |
|--------------------|------------------------------------------------|--------|------|
| Mrs. D. M. Edwards | Yew Tree House, Liverpool Road, Neston, Wirral | Neston | 2017 |
|--------------------|------------------------------------------------|--------|------|

## Part-time Nurses

|                              |                                                 |                |       |
|------------------------------|-------------------------------------------------|----------------|-------|
| Miss E. Bailey               | Oak Brow Cottage, Styal, Wilmslow               | Wilmslow       | 2738  |
| Mrs. J. C. Bickerton         | Treloyhan, Elton Road, Sandbach                 | Sandbach       | 3319  |
| Mrs. S. M. Bowers            | 29, Woodcott Avenue, Winsford                   |                |       |
| Mrs. S. Brown*<br>(176)      | 114, Wolverham Road, Whitby, Ellesmere Port     |                |       |
| Mrs. M. Chesters             | 23, Davenport Avenue, Crewe                     | Crewe          | 2130  |
| Miss E. J. Cliff             | 6, Ivy Lane, Alsager, Stoke-on-Trent            | Alsager        | 970   |
| Mrs. B. Collier              | 2, Beech Avenue, Rosehill, Marple, Stockport    |                |       |
| Mrs. V. E. Corson*<br>(175)  | Dormy, 40, Wilkinson Street, Ellesmere Port     | Ellesmere Port | 3146  |
| Mrs. M. Curtis               | 6, Ackers Road, Stockton Heath                  |                |       |
| Mrs. S. Davenport            | 25, Woodfield Grove, Hoole, Chester             | Chester        | 28693 |
| Mrs. J. I. Dunkerley         | Leeroden, Parvey Lane, Sutton, Macclesfield     | Sutton         | 380   |
| Mrs. V. M. Dutton*<br>(151b) | Walkers Green Farm, Sproston, Middlewich        | Middlewich     | 2174  |
| Mrs. M. Fields               | 10, Edale Close, Hazel Grove                    |                |       |
| Mrs. K. Flanagan             | 61, Dean Drive, Wilmslow                        | Wilmslow       | 5199  |
| Mrs. J. R. Flood             | 70, Nursery Road, Cheadle Hulme                 | Hulme Hall     | 4681  |
| Mrs. D. Frame                | 6, Thorneyholme Drive, Knutsford                | Knutsford      | 2558  |
| Mrs. J. B. Gilbertson        | 2, Raleigh Road, Neston                         | Neston         | 3117  |
| Mrs. L. M. Gillam            | 27, Goyt Crescent, Bredbury, Stockport          | Woodley        | 2473  |
| Mrs. E. L. Hartwell          | 28, Alexandra Grove, Runcorn                    | Runcorn        | 4628  |
| Mrs. M. Hooley               | 173, Bramhall Moor Lane, Hazel Grove            | Stepping Hill  | 4719  |
| Mrs. H. M. Johnson           | 21, Fir Tree Drive, Newton, Hyde                | Hyde           | 3402  |
| Miss I. Johnson              | 22, Abington Road, Sale                         | Sale           | 9330  |
| Mrs. J. H. Jones             | 115, Hyde Road, Woodley, Stockport              | Woodley        | 3685  |
| Mrs. M. L. Jones             | 4, Newton Drive, Newton, West Kirby, Wirral     | Caldy          | 7841  |
| Mrs. P. A. Jones             | 12, Tower Road South, Heswall                   | Heswall        | 4874  |
| Mrs. E. A. Jones             | Woodcroft, Wealstone Lane, Plas Newton, Chester | Chester        | 27063 |
| Mrs. R. Kophamel             | 29, Oak Road, Woodhey, Bebington, Wirral        | Rock Ferry     | 5707  |

# **Part-time Nurses** (contd.)

|                     |                                                     |                   |    |
|---------------------|-----------------------------------------------------|-------------------|----|
| Mrs. M. McNamee     | 231, Brooklands Road,<br>Manchester, 23             | Pyramid           | 25 |
| Mrs. J. Porter      | 16, Bollinbarn, Bollinbrook Road,<br>Macclesfield   | Macclesfield      | 46 |
| Mrs. J. A. Pownall  | 8, Newlands Road, Stockton<br>Heath, Warrington     | Warrington        | 63 |
| Mrs. M. Pugh        | 26, Ferguson Avenue,<br>Overpool, Ellesmere Port    | Ellesmere<br>Port | 39 |
| Mrs. M. Reece,      | 26, George Street, Barnton<br>Northwich             |                   |    |
| Mrs. M. Rhodes      | 27, St. Wilfred's Drive,<br>Grappenhall, Warrington | Warrington        | 64 |
| Mrs. S. Roycroft    | Roadside, Knutsford Road,<br>Chelford               | Chelford          | 3  |
| Mrs. E. Scholes     | 36, Bailey Crescent, Congleton                      | Congleton         | 39 |
| Mrs. A. M. Skellam  | 28, Birch Avenue, Alsager                           | Alsager           | 9  |
| Mrs. G. A. Stanway  | 23, Beswicks Road, Northwich                        | Northwich         | 50 |
| Mrs. W. F. Stenning | 1, Hillcrest Drive, Little Sutton,<br>Wirral        |                   |    |
| Mrs. A. Webster     | Sarnia, Cartledge Close,<br>Cuddington, Northwich   | Sandiway          | 2  |
| Mrs. I. R. Whittam  | 6, Leigh Road, West Kirby,<br>Wirral                | Caldy             | 6  |
| Mrs. G. Widd        | 28, Brookfield Drive, Timperley,<br>Altrincham      | Pyramid           | 1  |

# **COUNTY MIDWIVES (78)**

| <i>District</i>              | <i>Name</i>             | <i>Address</i>                                                     | <i>Telephone</i>    |
|------------------------------|-------------------------|--------------------------------------------------------------------|---------------------|
| Altrincham                   | Mrs. E. L. Pedley (33)  | 6, Audley Road, Alsager, Stoke-on-Trent                            | Alsager 583         |
|                              | Miss N. Smith (40)      | 11a, Carrfield Ave., Broomwood Estate, Timperley Altrincham        | Ringway 6844        |
|                              | Miss M. L. Lever (40a)  | Flat 5, Battens, Stamford Road, Bowdon, Altrincham                 | Altrincham 5532     |
| Bebington                    | Mrs. C. R. Green (5)    | 152, Town Lane, Bebington                                          | Mountwood 1747      |
|                              | Mrs. A. Harwood (6)     | 84, Thorburn Road, New Ferry                                       | Rock Ferry 4621     |
|                              | Mrs. D. Clarke (7)      | 922, New Chester Road, Bromborough, Wirral                         | Eastham 2368        |
|                              | Mrs. A. M. Taylor (7a)  | The Beeches, Raby Drive, Bromborough, Wirral                       | Bromborough 2140    |
|                              | Miss J. V. Joyce (4)    | 108, Mill Park Drive, Eastham Wirral                               | Eastham 2022        |
| Bredbury                     | Miss M. M. Leigh (57)   | 13, George Lane, Bredbury, Stockport                               | Woodley 2754        |
|                              | Miss M. E. Morris (57a) | 13, George Lane, Bredbury, Stockport                               | Woodley 2754        |
| Cheadle                      | Miss M. T. Rue, (47a)   | 8, Eskdale, High Grove, Cheadle Cheshire                           | Gatley 6929         |
|                              | Mrs. S. Henry (48)      | 58, Ladybridge Road, Cheadle Hulme                                 | Hulme Hall 3261     |
|                              | Mrs. M. F. Ward (49)    | 33, Brookhead Drive, Cheadle                                       | Gatley 6598         |
|                              | Miss R. McMechan (49a)  | 45, Neal Avenue, Heald Green Cheadle, Cheshire                     | Mercury 1138        |
| Crewe                        | Miss E. A. Bimson (27)  | 13, Primrose Hill, Crewe                                           | Crewe 2239          |
|                              | Miss D.B. Sowden(29)    | 19, Nelson Street, Crewe                                           | Crewe 3110          |
|                              | Mrs. E. Weston (30)     | 19, Nelson Street, Crewe                                           | Crewe 3110          |
|                              | Mrs. C. Hibbert (31a)   | 11, Plant Lane, Elton, Sandbach                                    | Sandbach 556        |
|                              | Miss J. Potts (28)      | 199, Edleston Road, Crewe                                          | Crewe 3701          |
| Dukinfield                   | Miss L. W. O'Hara (62)  | 13, Foundry Street, Dukinfield                                     | Ashton 4874         |
|                              | Miss L. Bradley (63)    | 24, Morar Road, Dukinfield                                         | Ashton 4261         |
| Ellesmere Port and High Lane | Mrs. L. Baker (69a)     | Southcot, Buxton Road, Newtown New Mills, Stockport                | Disley 2965         |
| Ellesmere Port               | Miss E. Bowyer (9)      | 71, Glenwood Road, Little Sutton, Wirral                           | Hooton 2689         |
|                              | Miss H. Jobber (9a)     | 138, Princes Rd., Ellesmere Port                                   | Ellesmere Port 1215 |
|                              | Miss F. J. Turner (9b)  | 1, Maple Ave., Little Sutton, Wirral                               | Hooton 2146         |
|                              | Mrs. M. H. Bendell (10) | Lyndale, 6, Palm Grove, Sunny Haven Estate, Whitby, Ellesmere Port | Ellesmere Port 1982 |
|                              | Mrs. J. O. Pace (11)    | 45, Tennyson Rd., Ellesmere Port                                   | Ellesmere Port 1942 |
|                              | Miss I. N. Willis (13)  | 1, Mallory Road, Ellesmere Port                                    | Ellesmere Port 2964 |

# **COUNTY MIDWIVES (cont.)**

| <i>District</i>        | <i>Name</i>                   | <i>Address</i>                                        | <i>Telephone</i> |
|------------------------|-------------------------------|-------------------------------------------------------|------------------|
| Grappenhall            | Miss E. Tinker (21)           | 30, Georges Crescent, Grappenhall<br>Warrington       | Warrington 61    |
|                        | Mrs. H. Grace (21a)           | 41, Springfield Ave., Grappennall                     | Warrington 62    |
| Hale and<br>Hale Barns | Mrs. M. J. Mitchell<br>(40a)  | 22, Arthog Drive, Hale                                | Ringway          |
| Hartford               | Mrs. P. E. Edwards<br>(23a)   | 28, Stones Manor Lane,<br>Hartford, Northwich         | Northwich 4      |
| Hazel Grove            | Mrs. M. Vidovic (50)          | 20, Reevey Avenue, Hazel Grove<br>Stockport           | Stepping Hill 3  |
|                        | Mrs. D. Redford (50a)         | 53, Cavendish Road, Hazel Grove                       | Poynton 2        |
| Holling-<br>worth      | Mrs. K. O'Grady (66)          | 7, Hawthorne Grove,<br>Hollingworth Hyde              | Mottram 2        |
| Hoylelake<br>and       | Miss Mona Williams (1)        | 1, Trinity Road, Hoylelake, Wirral                    | Hoylelake 3      |
|                        | Mrs. M. Cooper (2)            | 38, Rigby Drive, Greasby, Wirral                      | Arrowebrook 1    |
| West Kirby             | Miss G. Wotton (3)            | 103, Lloyd Drive, Greasby Wirral                      | Arrowebrook 1    |
| Hyde                   | Mrs. E. Hudson (64)           | 202, Dowson Road, Hyde                                | Hyde 2           |
|                        | Miss M. Coote (66a)           | 3b, Hallbottom Street, Hyde                           | Hyde 1           |
|                        | Mrs. M. Williams (65)         | 10, Paddock Road, Cheetham<br>Fold Estate, Hyde       | Hyde 3           |
|                        | Miss M. M. Todd<br>(65a)      | 37, Padstow Walk, Hattersley,<br>Hyde                 | Mottram 3        |
| Lymm                   | Miss J. Pike (34)             | 21, The Crescent, Lymm,<br>Cheshire                   | Lymm             |
| Macclesfield           | Miss F. A. Scrivens<br>(53)   | Flat 4, Sunny Bank, London Rd.,<br>Macclesfield       | Macclesfield 2   |
|                        | Mrs. A. Watson (54)           | 18, Surrey Road, Macclesfield                         | Macclesfield 4   |
|                        | Mrs. C. H. Doody (55)         | Norwood, Blakelow Road,<br>Macclesfield               | Macclesfield 5   |
|                        | Mrs. M.<br>Woolstenhulme (56) | 55, Wentworth Ave, Weston,<br>Macclesfield            | Macclesfield 4   |
|                        | Miss J. M. Barber (56a)       | 17, Arlington Drive, Macclesfield                     | Macclesfield 5   |
|                        | Miss A. S. Travis (69)        | 19, Greenbank Crescent,<br>Mount Drive Estate, Marple | Marple           |
| Neston                 | Miss D. Price (8)             | Gorston, Sandy Lane,<br>Little Neston, Wirral         | Neston 1         |
|                        | Miss M. R. Walker (8a)        | 7, Raby Road, Neston, Wirral                          | Neston 2         |
| Northwich              | Mrs. W. A. Place (24)         | 22, Fairfield Road, Leftwich.<br>Northwich            | Northwich 3      |
|                        | Miss D. I. Price (24a)        | 38, Water Street, Northwich                           | Northwich 2      |

# **COUNTY MIDWIVES (cont.)**

| <i>strict</i>               | <i>Name</i>                 | <i>Address</i>                                             | <i>Telephone</i> |
|-----------------------------|-----------------------------|------------------------------------------------------------|------------------|
| ington                      | Miss H. Lawrie (43)         | 45, Bucklow Avenue, Partington,<br>Urmston, Manchester     | Irlam 2274       |
|                             | Mrs. M. Brown (43a)         | 30, Elizabeth Road, Partington,<br>Urmston, Manchester     |                  |
| iley                        | Miss E. Whaite (70)         | 9, Windsor Grove, Romiley<br>Stockport                     | Marple 2534      |
| icorn                       | Miss E.M. Grice (17a)       | 40, Norman Road, Runcorn                                   | Runcorn 3602     |
|                             | Miss P. Noon (19)           | 73, Oxford Road, Runcorn                                   | Runcorn 2881     |
|                             | Mrs. P. Farrell (17)        | 134, Heath Road South, Weston,<br>Runcorn                  | Runcorn 3707     |
|                             | Mrs. M. Woods (19a)         | 14, St. Mary's Road, Halton,<br>Runcorn                    | Runcorn 3981     |
|                             | Mrs. J. Capper (18)         | 10, Stanley Villas, Runcorn                                | Runcorn 2556     |
|                             | Mrs. H. M. McSorley<br>(38) | 104, Hoylake Road, Sale                                    | Pyramid 1724     |
|                             | Mrs. G. Thomson<br>(36a)    | 70, Chapel Road, Sale, Cheshire                            | Sale 5197        |
| dbach                       | Miss M. Beatty (45)         | 5, Coronation Crescent, Sandbach                           | Sandbach 731     |
| lybridge                    | Miss H. Sowerbutts<br>(58)  | 572, Huddersfield Road,<br>Heyheads, Stalybridge           | Mossley 2268     |
|                             | Miss B. Lodge (59)          | 34, Harridge Ave., Stalybridge                             | Stalybridge 3495 |
|                             | Mrs. J. Evans (60)          | 35, Groby Street, Stalybridge                              | Stalybridge 2512 |
| ckton<br>leath              | Mrs. J. M. Arthur<br>(22)   | 15, Southern Street, Stockton<br>Heath Warrington          | Warrington 61674 |
| ton and<br>'icar's<br>Cross | Miss C. Brierley (15)       | Greystones, Quarry Lane,<br>Christleton, Chester           | Chester 35942    |
|                             | Miss I. B. Jones (16)       | 85, Upton Drive, Liverpool Rd.,<br>Chester                 | Chester 21097    |
|                             | Mrs. D. M. Ward<br>(15a)    | 3, Clarence Ave., Green Lane,<br>Vicars Cross, Chester     | Chester 21360    |
| averham                     | Miss J. Wolahan (23)        | 49, Wallerscote Road, Weaver-<br>ham, Northwich            | Weaverham 2116   |
| mslow                       | Miss F. Marsden (67)        | 1, Prescott Rd., Lacey Green<br>Estate, Wilmslow, Cheshire | Wilmslow 5577    |
|                             | Mrs. E. E. Riches (68)      | 51, Pickmere Rd., Handforth,<br>Wilmslow, Cheshire         | Wilmslow 3120    |
|                             | Miss B. Cockerill<br>(67a)  | 1, Dean Terrace, King Street,<br>Woodford                  | Wilmslow 2273    |

## CEREBRAL PALSY TEAM

|                               |       |       |               |
|-------------------------------|-------|-------|---------------|
| <i>Physiotherapist</i>        | ..... | ..... | .....         |
| <i>Occupational Therapist</i> | ..... | ..... | Annabel Noake |

## CHILD GUIDANCE SERVICE

|                                           |       |       |       |                                                                                                                                                   |
|-------------------------------------------|-------|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Child Psychiatrists</i><br>(part-time) | ..... | ..... | ..... | J. Erulkar, M.B., B.S., D.C.H.,<br>M.R.C.P., D.P.M.<br>Maria Rogers, M.B., CH.B.,<br>B.A.O., D.P.M.<br>D. M. Zausmer, B.Sc., M.B.<br>B.S., D.P.M. |
| <i>Psychologists</i>                      | ..... | ..... | ..... | Miriam Lee, B.Sc. (part-<br>time)<br>Elizabeth Long, B.A.<br>Nora Scott, B.A. (part-time)<br>J. Walker, B.A.                                      |
| <i>Psychological Social Workers</i>       |       |       |       | Margaret Brearly<br>Ellen Howitt<br>Phyllis Redfarn<br>Christabel Walker, B.A.                                                                    |

## PERIPATETIC TEACHERS OF THE DEAF

|                  |                    |
|------------------|--------------------|
| P. R. Buckingham | Elizabeth Layfield |
| T. A. Harrison   | D. L. Perry        |

## SPEECH THERAPISTS

|                          |                            |
|--------------------------|----------------------------|
| Rayleen Eaton            | Susan Williams             |
| Judith Kay               | Kathleen Jones (part-time) |
| Melba Loynes (part-time) |                            |

## DOMESTIC HELP SUPERVISORS

| <i>Division</i>                | <i>Supervisor</i>  |
|--------------------------------|--------------------|
| Crewe and Nantwich             | Joan Clarke        |
| Deeside and Bebington          | Bernice McGuirk    |
| Hyde, Stalybridge & Dukinfield | Florence Partridge |
| Mid-Cheshire                   | Kathleen Pointon   |
| N.E. Cheshire                  | Ada Sutton         |
| Macclesfield and S.E. Cheshire | Joan Cheetham      |
| S.W. Cheshire                  | Dorothy Fellowes   |
| Altrincham                     | Nora Mawby         |
| Runcorn                        | Dorothy Shepherd   |
| Cheadle and Wilmslow           | Margaret Francis   |
| Sale and Lymm                  | Marjorie Hooley    |

# MENTAL WELFARE OFFICERS

| District                                       | Area                                                                                                                      | Office Address                                                                       | Area Mental Welfare Officer                                                                                  | Mental Welfare Officers                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                     |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| No. 1<br>Wirral                                | BEBINGTON M.B.<br>HOYLAKE U.D.<br>WIRRAL U.D.<br>NESTON U.D.                                                              | 218, Bebington Road, Bebington<br>Telephone:—Rock Ferry 4243/4                       | Mr. E. M. Harborow,<br>The Allports, Allport Road,<br>Bromborough.<br>Telephone:—Bromborough 1620            | Mrs. C. Ledsome,<br>21, Latchford Road, Gayton<br>Heswall.<br>Telephone:—Heswall 2011<br>Mr. A. J. Hotchkiss,<br>20, Thorpe Bank,<br>Rock Ferry, Birkenhead<br>Telephone:—Rock Ferry 5919                                                                                           | Mr. E. S. Hughes,<br>6, Newton Drive, Newton,<br>West Kirby.<br>Telephone:—Hoylake 7830<br>Mr. D. T. Rattray,<br>26, Rothsay Drive, Eastham                                                                         |
| No. 2<br>West Cheshire                         | ELLESMERE PORT M.B.<br>CHESTER R.D.<br>TARVIN R.D.                                                                        | 55, Hoole Road, Chester<br>Telephone:—Chester 22299<br>Chester 42607                 | Mr. H. Q. Dowland,<br>3, Upton Drive, The Bache, Chester<br>Telephone:—Chester 20091                         | Mrs. R. Smith,<br>8, Eastern Pathway,<br>Queen's Park, Chester<br>Telephone:—Chester 21699<br>Mr. D. J. Evans,<br>61, Nelson Drive,<br>Pensby, Wirral                                                                                                                               | Mr. M. Ashmore<br>1, Woodlands Avenue,<br>Parkgate Road, Chester<br>Telephone:—Chester 20665<br>Mr. G. P. Davies,<br>15, Imperial Avenue,<br>Blacon, Chester.<br>Telephone:—Chester 29334                           |
| No. 3<br>Runcorn and<br>Lymm                   | RUNCORN U.D.<br>RUNCORN R.D.<br>LYMM U.D.                                                                                 | Clinic Centre,<br>28, Halton Road, Runcorn<br>Telephone:—Runcorn 2449<br>2871/2      | Mr. H. Holden,<br>79, Victoria Road, Runcorn<br>Telephone:—Runcorn 3747                                      | Mr. A. Braddock.<br>16, Rilcy Drive, Runcorn<br>Telephone:—Runcorn 4127                                                                                                                                                                                                             | Mr. D. M. Seddon,<br>53, Moss Lane, Cuddington<br>Telephone:—Sandiway 2432                                                                                                                                          |
| No. 4<br>Mid Cheshire                          | NORTHWICH U.D.<br>WINSFORD U.D.<br>MIDDLEWICH U.D.<br>NORTHWICH R.D.                                                      | Brunner Guildhall,<br>High Street, Winsford<br>Telephone:—Winsford 3346              | Mr. G. E. H. Howard,<br>5, Gainsborough Road,<br>Borras Park, Wrexham.<br>Telephone:—Wrexham 4794            | Mr. B. J. Moules,<br>Flat 5, Cuddington Grange,<br>Norley Road, Cuddington<br>Telephone:—Sandiway 3317<br>Mr. B. Hewitt,<br>18, Water Street, Northwich<br>Telephone:—Northwich 3848                                                                                                | Miss K. Kiernan,<br>Lyngarth, 2, Heysoms Avenue,<br>Greenbank, Northwich<br>Telephone:—Northwich 5632                                                                                                               |
| No. 5<br>Crewe and<br>Nantwich                 | CREWE M.B.<br>NANTWICH U.D.<br>NANTWICH R.D.<br>ALSAGER U.D.<br>SANDBACH U.D.                                             | 201, Edleston Road, Crewe<br>Telephone:—Crewe 2478                                   | Mr. R. E. Broach,<br>180, Crewe Road, Alsager.<br>Telephone:—Alsager 174                                     | Miss A. Unsworth.<br>Flat 1, Hankclow Hall, Hankelow.<br>Audlem, Nr. Crewe<br>Telephone:—Audlem 378                                                                                                                                                                                 | Mr. M. P. Hennessey,<br>6, Kingsway, Crewe<br>Telephone:—Crewe 55638<br>Miss M. Evans,<br>22, Lea Avenue, Crewe<br>Telephone:—Crewe 4006<br>Mr. W. Day,<br>6, Kingsway, Crewe<br>Telephone:—Crewe 55638             |
| No. 6<br>Altrincham, Sale<br>and Knutsford     | ALTRINCHAM M.B.<br>SALE M.B.<br>BOWDON U.D.<br>HALE U.D.<br>KNUTSFORD U.D.<br>BUCKLOW R.D.                                | 59, Washway Road, Sale.<br>Telephone:—Sale 2305<br>Pyramid 2951                      | Mr. J. Thompson,<br>23, Manor Avenue, Ashton-on-<br>Mersey, Sale.<br>Telephone:—Sale 5582                    | Mr. R. E. Hopkinson,<br>4, Hargreaves Road, Timperley.<br>Telephone:—Ringway 4775<br>Mrs. A. E. Perry,<br>30, Westwood Avenue,<br>Timperley, Altrincham<br>Telephone:—Sale 3222                                                                                                     | Mr. W. Reid,<br>47, Boothfields, Knutsford<br>Telephone:—<br>Mr. P. Thomas,<br>4, Westbourne Grove,<br>Sale<br>Mr. G. V. Ashton,<br>30a, Ashton Lane, Sale<br>Telephone:—Pyramid 3838                               |
| No. 7<br>Macclesfield<br>and Congleton         | MACCLESFIELD M.B.<br>MACCLESFIELD R.D.<br>CONGLETON M.B.<br>CONGLETON R.D.<br>BOLLINGTON U.D.                             | Oak House, Brunswick Street,<br>Macclesfield<br>Telephone:—Macclesfield 6030<br>5667 | Mr. L. Meadwell,<br>Craigmere, Brereton Heath Lane,<br>Somerford, Congleton<br>Telephone:—Holmes Chapel 3202 | Mr. G. D. Brown,<br>76, Bailey Crescent,<br>Buglawton, Congleton.<br>Telephone:—Congleton 2329<br>Mrs. G. Eccles,<br>Natalie, 96, Holmes Chapel Road,<br>Congleton<br>Telephone:—Congleton 3799<br>Mr. E. Hambleton,<br>72, Bailey Crescent, Congleton<br>Telephone:—Congleton 3705 | Miss M. Lea,<br>42, Pennine Court,<br>Hurdfield Green, Macclesfield<br>Telephone:—Macclesfield 5742<br>Mr. L. E. Stebbings,<br>92, Range Court,<br>Hurdfield Green,<br>Macclesfield<br>Telephone:—Macclesfield 3964 |
| No. 8<br>North-East<br>Cheshire                | CHEADLE & GATLEY U.D.<br>HAZEL GROVE & BRAMHALL U.D.<br>MARPLE U.D.<br>WILMSLOW U.D.<br>ALDERLEY EDGE U.D.<br>DISLEY R.D. | Clinic Centre, 253, London Rd.,<br>Hazel Grove<br>Telephone:—Stepping Hill 3842      | Mr. R. Ashton,<br>23, Fairfield Avenue,<br>Cheadle Hulme<br>Telephone:—Hulme Hall 3672                       | Mr. Brian Bowles,<br>3, Brooke Drive, Handforth,<br>Wilmslow.<br>Telephone:—Lindow Park 7257                                                                                                                                                                                        | Mr. M. G. Smith,<br>20, Moorfield Grove,<br>Heaton Moor, Stockport<br>Telephone:—Heaton Moor 8227<br>Mrs. B. Adshead,<br>25, Ashfield Road,<br>Davenport, Stockport<br>Telephone:—Stepping Hill 6324                |
| No. 9<br>Stalybridge<br>Hyde and<br>Dukinfield | STALYBRIDGE M.B.<br>HYDE M.B.<br>DUKINFIELD M.B.<br>LONGDENDALE U.D.<br>BREDBURY & ROMILEY U.D.<br>TINTWISTLE R.D.        | Clinic Centre, Stamford Street,<br>Stalybridge<br>Telephone:—Stalybridge 2278        | Mr. G. E. Lanceley,<br>17, Buckley Drive,<br>Bredbury Green, Romiley<br>Telephone:—Woodley 2329              | Miss G. Price,<br>39, Granville Street,<br>Ashton-u-Lyne.<br>Telephone:—Ashton 5008                                                                                                                                                                                                 | Mr. D. J. Dilworth,<br>171, Springs Lane, Ridge Hill,<br>Stalybridge<br>Telephone:—Stalybridge 3330<br>Mr. N. G. Power,<br>1c, Parsonage Moor,<br>Heaton Moor,<br>Stockport.<br>Telephone:—Heaton Moor 1122         |





## DAY NURSERIES

|                                |                                                                                                                                                                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Altrincham M.B.                | 1, Gaskell Road (Tel. Altrincham 3621).<br><i>Matron</i> —Mrs. W. Helliwell                                                                                                                                                                                        |
| Bebington M.B.                 | The Bradmoor, Bromborough (Tel. Brom-<br><i>Matron</i> —Mrs. W. I. Boulton 1381)                                                                                                                                                                                   |
| Congleton M.B.                 | Bradshaw House, Lawton Street (Tel. Congleton<br><i>Matron</i> —Mrs. E. E. Barker 3282).                                                                                                                                                                           |
| Dukinfield M.B.                | Dewsnap Lane (Tel. Ashton-u-Lyne 3136).<br><i>Matron</i> —Mrs. C. J. Bell                                                                                                                                                                                          |
| Ellesmere Port M.B.            | Stanney Lane, Ellesmere Port (Tel.:<br><i>Matron</i> —Mrs. R. F. Chroston E. Port 1500)                                                                                                                                                                            |
| Macclesfield M.B.              | South Park, Poplar Road (Tel. Macclesfield 3751)<br><i>Matron</i> —Mrs. M. Mallinson<br>1, Glegg Street (Tel. Macclesfield 2813).<br><i>Matron</i> —Mrs. E. Roberts<br>Nicholson Avenue, Hurdsfield (Tel. Maccles-<br><i>Matron</i> —Mrs. A. C. Aspden field 4225) |
| Sale M.B.                      | Harley Road (Tel. Sale 4627).<br><i>Matron</i> —Mrs. C. M. de Patoul                                                                                                                                                                                               |
| Bollington U.D.                | Buntings Field, Wellington Road (Tel. Bolling-<br><i>Matron</i> —Mrs. C. A. Brooks ton 3294)                                                                                                                                                                       |
| Bredbury & Romiley U.D.        | Highfield Park Road, Bredbury (Tel. Woodley<br><i>Matron</i> —Mrs. E. Ogden 2817).                                                                                                                                                                                 |
| Hazel Grove &<br>Bramhall U.D. | Queen's Road, Hazel Grove (Tel. Stepping Hill<br><i>Matron</i> —Miss P. Höhne 3842)                                                                                                                                                                                |
| Runcorn U.D.                   | Okell Street (Tel. Runcorn 2461).<br><i>Matron</i> —Mrs. M. Jones                                                                                                                                                                                                  |

## WRENBURY HALL TUBERCULOSIS REHABILITATION CENTRE

*Warden and Manager*—L. T. Burton (Tel. Aston (Nantwich) 313)

## MOTHER AND BABY HOME

Prospect House, 7, Trinity Road, Hoylake (Tel. Hoylake 1054).

*Matron*—Mrs. E. Mann

## JUNIOR TRAINING CENTRES

|              |                                                                                                     |
|--------------|-----------------------------------------------------------------------------------------------------|
| Altrincham   | Navigation Road (Tel. Altrincham 4977).<br><i>Supervisor</i> —Mrs. D. M. Platt.                     |
| Bebington    | Calveley Avenue, Mill Park Drive, Eastham (Tel.<br><i>Supervisor</i> —Mrs. M. Sutton Eastham 2270). |
| Crewe        | Crewe Road (Tel. Crewe 2446)<br><i>Supervisor</i> —Mrs. M. Hayes.                                   |
| Hyde         | Grange Road (Tel. Hyde 1718).<br><i>Supervisor</i> —Mrs. J. Tomkinson.                              |
| Macclesfield | Park Lane (Tel. Macclesfield 3407).<br><i>Supervisor</i> —Mrs. M. Cheadle.                          |
| Northwich    | David Street (Tel. Northwich 4398).<br><i>Supervisor</i> —Mrs. E. E. Davenport.                     |

## ADULT TRAINING CENTRES

|                |                                                                                              |
|----------------|----------------------------------------------------------------------------------------------|
| Altrincham     | Albert Place, Dunham Road (Tel. Altrincham 6755)<br><i>Superintendent</i> —E. S. Farrington. |
| Crewe          | Crewe Road (Tel. Crewe 2452).<br><i>Superintendent</i> —E. Threlfall.                        |
| Ellesmere Port | Coronation Road (Tel. Ellesmere Port 1512.)<br><i>Superintendent</i> —J. H. Heath.           |
| Hyde           | Grange Road (Tel. Hyde 1730).<br><i>Superintendent</i> —L. S. C. Thorpe.                     |
| Macclesfield   | Park Lane (Tel. Macclesfield 6344).<br><i>Superintendent</i> —W. Lowe.                       |
| Northwich      | David Street (Tel. Northwich 5100).<br><i>Superintendent</i> —H. Boocock                     |

## CENTRAL OFFICE

County Hall, Chester (Tel. Chester 24678)

# REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1964

## SECTION 1.-AREA AND POPULATION

### 1. AREA

The acreage of the County at the end of 1964 was 621,825 acres.

### 2. POPULATION

The population of the Administrative County, as constituted, 1/4/64 and enumerated at the Census of 1961, was 921,212. The estimate of the Registrar-General for mid-1964 was 981,130.

### 3. RATEABLE VALUE

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/64 was £38,434,343 (after revaluation). A penny rate over the whole County for 1964-65 represented the sum of £158,107 (estimated).

### 4. HEALTH SERVICE PREMISES

The undermentioned major works were commenced or completed in the above year, and many minor adaptations and improvements were carried out at various buildings. The normal programme of maintenance work has continued.

#### (a) Buildings completed during the year:

Northwich Ambulance Depot.  
Altrincham Adult Training Centre.  
Northwich Adult Training Centre.  
Crewe Junior and Adult Training Centres.  
Stalybridge Clinic Centre and Divisional Offices.  
Hazel Grove Clinic Centre.  
Hazel Grove Ambulance Depot.  
Pensby Clinic Centre.  
Cheadle Heald Green Clinic Centre.  
Alsager Sandbach Road Clinic Centre.  
Cheadle Adswold Clinic Centre.  
Sale Bodmin Road Clinic Centre.  
Upton Plas Newton Clinic Centre.  
Wilmslow Remenham Clinic Centre.  
Grappenhall Ambulance Depot.  
Knutsford Ambulance Depot.

**Buildings in course of erection during the year:**

Dukinfield Dewsnap Lane Clinic Centre.

Greasby Clinic Centre.

Hyde Clinic Centre and Divisional Offices.

Macclesfield Earlsway Clinic Centre.

Runcorn Grange Estate Clinic Centre.

## SECTION II.- BIRTHS AND DEATHS

The figures are for the Administrative County, 1964, unless otherwise stated.

### 1. LIVE BIRTHS AND STILLBIRTHS

#### (a) Live Births:—

|                    | Total       | Male       | Female     |
|--------------------|-------------|------------|------------|
| Legitimate .....   | 17417       | 8956       | 8461       |
| Illegitimate ..... | 794         | 403        | 391        |
|                    | <hr/> 18211 | <hr/> 9359 | <hr/> 8852 |

Birth Rate per 1,000 of the estimated resident population, 18·6

Illegitimate Live Births were 4·4% of the total live births.

#### (b) Stillbirths:—

|                    | Total     | Male      | Female    |
|--------------------|-----------|-----------|-----------|
| Legitimate .....   | 266       | 140       | 126       |
| Illegitimate ..... | 12        | 9         | 3         |
|                    | <hr/> 278 | <hr/> 149 | <hr/> 129 |

Stillbirths Rate per 1,000 total (live and still) births, 15·0

Total—Live and Stillbirths, 18,489.

### 2. DEATHS

#### (a) Deaths:—

|              | Total | Male | Female |
|--------------|-------|------|--------|
| Deaths ..... | 11061 | 5623 | 5438   |

Death Rate per 1,000 of population, 11·3.

#### (b) Infantile Mortality:—

|                                                                    | Under<br>1 year | Under<br>4 weeks | Under<br>1 week |
|--------------------------------------------------------------------|-----------------|------------------|-----------------|
| Deaths of Infants .....                                            | 330             | 229              | 201             |
| Legitimate .....                                                   | 316             | 219              | 192             |
| Illegitimate .....                                                 | 14              | 10               | 9               |
| All Infants per 1,000 live births .....                            | 18·1            | 12·6             | 11·0            |
| Legitimate Infants per 1,000 legitimate<br>live births.....        | 18·1            | 12·6             | 11·0            |
| Illegitimate Infants per 1,000 illegit-<br>imate live births ..... | 17·6            | 12·6             | 11·3            |

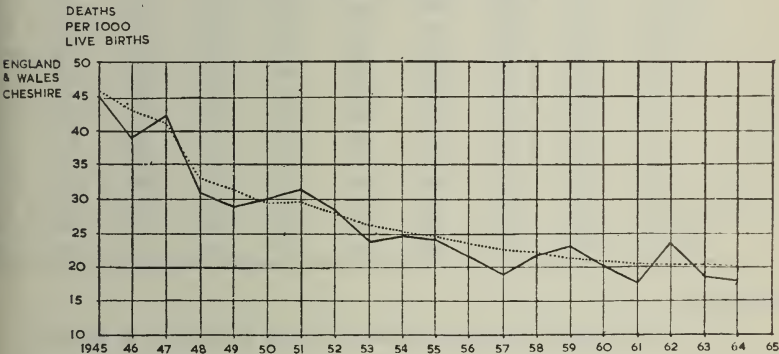
Of the 330 deaths of infants under one year of age, 50 deaths occurred at home and 280 deaths in hospitals or nursing homes. The

causes of death, using the Registrar General's Classification, were as follows:—

|                                 |     |
|---------------------------------|-----|
| Leukaemia                       | 1   |
| Heart Disease                   | 1   |
| Influenza                       | 1   |
| Whooping Cough                  | 1   |
| Meningococcal infections        | 1   |
| Other Infective Disease         | 2   |
| Malignant Neoplasm              | 2   |
| Pneumonia                       | 38  |
| Bronchitis                      | 5   |
| Gastritis, Enteritis, Diarrhoea | 8   |
| Congenital Malformations        | 83  |
| Other diseases                  | 177 |
| Accidents                       | 10  |

The rates for deaths under one year per 1,000 live births in recent years are shown in the following diagram :—

INFANTILE MORTALITY



(c) Perinatal Deaths

Perinatal deaths are the total of stillbirths and deaths of infants under one week, and were made up as follows in 1964:—

|                       |            |
|-----------------------|------------|
| Stillbirths           | 278        |
| Deaths under one week | 201        |
| <b>Total</b>          | <b>479</b> |

The Perinatal Mortality Rate (stillbirths and deaths under one week combined per 1,000 total live and still births) for 1964 was 25.9.

(d) Deaths from Puerperal Causes

|                                 | Deaths | Rate per 1,000 total (live and still) births |
|---------------------------------|--------|----------------------------------------------|
| Pregnancy, Childbirth, Abortion | 4      | 0.22                                         |

### (e) Principal Causes of Death

The table below shows the trends in the causation of death at all ages for each of the last ten years

|                   | 1964   | 1963 | 1962 | 1961 | 1960 | 1959 | 1958 | 1957 | 1956 | 1955 |
|-------------------|--------|------|------|------|------|------|------|------|------|------|
| T.B.—Resp.        | 33     | 33   | 40   | 44   | 37   | 54   | 59   | 72   | 98   | 75   |
| Other             | 4      | 2    | 3    | 3    | 7    | 3    | 7    | 11   | 8    | 15   |
| Diphtheria        | —      | —    | —    | —    | —    | —    | —    | —    | —    | —    |
| Whooping Cough    | 1      | —    | 2    | 1    | 1    | 1    | —    | 3    | 3    | 3    |
| Measles           | —      | 5    | —    | 2    | —    | 2    | 1    | 1    | 1    | 2    |
| Malig. Stom.      | M 147  | 177  | 158  | 175  | 172  | 177  | 168  | 166  | 151  | 151  |
|                   | F 109  | 114  | 144  | 110  | 145  | 144  | 133  | 129  | 131  | 137  |
| Lung Bronc        | M 416  | 382  | 349  | 350  | 300  | 311  | 337  | 310  | 288  | 274  |
|                   | F 66   | 59   | 57   | 57   | 60   | 52   | 49   | 49   | 52   | 44   |
| Breast            | 199    | 214  | 189  | 198  | 167  | 167  | 160  | 149  | 166  | 167  |
| Uterus            | 99     | 95   | 87   | 84   | 91   | 67   | 80   | 77   | 82   | 78   |
| Others            | M 458  | 509  | 480  | 441  | 442  | 462  | 457  | 465  | 442  | 442  |
|                   | F 444  | 454  | 439  | 419  | 476  | 445  | 433  | 407  | 410  | 410  |
| Leukaemia         | 62     | 60   | 42   | 42   | 40   | 44   | 42   | 28   | 43   | 39   |
| Diabetes          | 80     | 79   | 88   | 81   | 65   | 57   | 67   | 43   | 56   | 63   |
| Vasc. Nerv. Syst. | M 733  | 752  | 712  | 684  | 639  | 711  | 658  | 648  | 669  | 701  |
|                   | F 1010 | 1079 | 1081 | 1097 | 969  | 995  | 1071 | 1017 | 1039 | 913  |
| Coronary          | M 1424 | 1339 | 1285 | 1261 | 1233 | 1075 | 1043 | 964  | 1053 | 918  |
|                   | F 881  | 861  | 851  | 771  | 786  | 641  | 656  | 596  | 548  | 497  |
| Influenza         | 16     | 52   | 86   | 171  | 27   | 90   | 45   | 134  | 55   | 75   |
| Pneumonia         | 577    | 701  | 648  | 542  | 466  | 440  | 398  | 385  | 340  | 334  |
| Bronchitis        | 561    | 664  | 632  | 539  | 498  | 493  | 559  | 459  | 534  | 487  |
| Peptic Ulcer      | 63     | 64   | 81   | 86   | 81   | 91   | 74   | 88   | 92   | 116  |
| Nephritis         | 64     | 70   | 75   | 60   | 74   | 77   | 77   | 90   | 105  | 104  |
| Motor Accidents   | 160    | 166  | 123  | 168  | 140  | 119  | 124  | 108  | 101  | 105  |
| Other Accidents   | 184    | 194  | 188  | 186  | 172  | 191  | 200  | 215  | 205  | 183  |
| Suicide           | M 51   | 59   | 65   | 69   | 45   | 52   | 58   | 58   | 64   | 41   |
|                   | F 40   | 43   | 49   | 48   | 42   | 37   | 48   | 51   | 41   | 40   |

### (f) Death Rates

The death rates for the main diseases during 1964 were as follows:

| Disease                            | No. of Deaths | Rate<br>per million<br>population |
|------------------------------------|---------------|-----------------------------------|
| Heart Disease                      | 3605          | 3674                              |
| Malignant Diseases                 | 1938          | 1975                              |
| Vascular lesions of nervous system | 1743          | 1777                              |
| Bronchitis                         | 561           | 572                               |
| Pneumonia                          | 577           | 588                               |
| Ulcer of Stomach and Duodenum      | 63            | 64                                |
| Influenza                          | 16            | 16                                |
| Nephritis                          | 64            | 65                                |
| Tuberculosis (all forms)           | 37            | 38                                |
| Pulmonary                          | 33            | 34                                |
| Non-Pulmonary                      | 4             | 4                                 |
| Diabetes                           | 80            | 82                                |

(g) Zymotic Deaths

The deaths from the chief zymotic diseases were as follows:

| Disease                            | No. of Deaths | Rate<br>per million<br>population |
|------------------------------------|---------------|-----------------------------------|
| Diphtheria                         | —             | —                                 |
| Whooping Cough                     | 1             | —                                 |
| Measles                            | —             | —                                 |
| Gastritis, Diarrhoea and Enteritis | 61            | 62·2                              |

The zymotic Death Rate was 0·06 per 1,000 population.

Comparison of various rates with previous years

|                                                              | 1964  | 1964                                                         | 1963 | 1962 | 1961 | 1960 | 1959 | 1958 | 1957          | 1956 | 1955 | 1954 | 1953 | 1952 |
|--------------------------------------------------------------|-------|--------------------------------------------------------------|------|------|------|------|------|------|---------------|------|------|------|------|------|
| Births                                                       | 18211 | Birth Rate<br>(per 1,000 population)                         | 18.6 | 18.3 | 18.0 | 17.4 | 17.1 | 16.0 | 15.9          | 15.6 | 15.0 | 14.3 | 14.6 | 14.3 |
| Illegitimate Births                                          | 794   | Illegitimate Births as<br>percentage of total<br>Live Births | 4.4  | 3.7  | 4.2  | 3.6  | 3.4  | 3.2  | 3.2           | 3.2  | 3.6  | 3.7  | 3.8  | 3.7  |
| Stillbirths                                                  | 278   | Stillbirth Rate (per<br>1,000 Live and Still<br>Births)      | 15.0 | 18.1 | 17.5 | 19.7 | 19.3 | 21.6 | 22.5          | 22.8 | 24.1 | 22.4 | 22.1 | 23.4 |
| Deaths                                                       | 11061 | Death Rate<br>(per 1,000 population)                         | 11.3 | 12.0 | 12.1 | 12.2 | 11.6 | 12.0 | 12.1          | 11.9 | 12.3 | 12.2 | 11.9 | 11.6 |
| Deaths of Infants<br>under one year                          | 330   | Infantile Mortality<br>Rate                                  | 18.1 | 18.7 | 23.6 | 17.6 | 20.1 | 23.4 | 22.4          | 18.8 | 22.5 | 24.7 | 24.1 | 28.0 |
| Deaths of Infants<br>under four weeks                        | 229   | Neo-natal mortality<br>Rate                                  | 12.6 | 12.3 | 14.6 | 12.9 | 14.5 | 17.3 | 16.1          | 12.5 | 15.8 | 16.7 | 17.5 | 18.0 |
| Deaths of Infants<br>under one week                          | 201   | Deaths of Infants<br>under 1 week to<br>1,000 live births    | 11.0 | 10.6 | 12.1 | 10.8 | 12.5 | 14.8 | not available |      |      |      |      |      |
| Perinatal Deaths<br>(Stillbirths & deaths<br>under one week) | 479   | Perinatal Death<br>Rate                                      | 25.9 | 28.6 | 29.4 | 30.3 | 31.6 | 36.1 | not available |      |      |      |      |      |
| Maternal Deaths                                              | 4     | Maternal Mortality<br>rate                                   | 0.22 | 0.28 | 0.58 | 0.18 | 0.38 | 0.28 | 0.14          | 0.51 | 0.61 | 0.4  | 0.5  | 1.1  |

## SECTION III.VACCINATION AND IMMUNISATION

Under Section 26 of the National Health Service Act, 1946, the County Council has the duty of making available a full service of vaccination against smallpox and of immunisation against diphtheria; the organisation and management of the scheme has been devolved upon the Divisional Health Committees. Immunisation is also provided against whooping cough and tetanus. Immunisation is, in practice, meant for children, with particular attention to those in infancy, with reinforcing doses on school entry, but vaccination may on occasion be sought by persons of any age.

Arrangements made under the Council's scheme include participation by general practitioners and sessions at clinics. The table at the end of this section sets out the details.

### 1. SMALLPOX VACCINATION

During the year 1964, the number of persons vaccinated was as follows:—

|                       | <i>Vaccinated</i> | <i>Re-Vaccinated</i> |
|-----------------------|-------------------|----------------------|
| 0-3 months            | 253               | —                    |
| 3-6 „                 | 452               | —                    |
| 6-9 „                 | 378               | —                    |
| 9-12 „                | 665               | —                    |
| Age 1 year            | 3726              | 25                   |
| Age 2—4 years         | 1328              | 53                   |
| Age 5—14 years        | 311               | 263                  |
| Age 15 years and over | 648               | 1668                 |
|                       | <hr/> 7761        | <hr/> 2009           |

### 2. DIPHTHERIA IMMUNISATION

During the same period the number of children notified as having completed a full course of primary immunisation against diphtheria or receiving booster doses was:—

| <i>Year<br/>of<br/>Birth</i> | <i>Primary<br/>Course</i> | <i>Booster<br/>Doses</i> |
|------------------------------|---------------------------|--------------------------|
| 1964                         | 4493                      | 2                        |
| 1960-63                      | 8661                      | 1377                     |
| 1950-59                      | 841                       | 9687                     |
|                              | <hr/> 13975               | <hr/> 11066              |

It is unfortunate that not all immunisations carried out are notified to the Local Health Authority and the above figures are therefore not complete.

The number of children at 31st December, 1964, who had completed a full course of immunisation against diphtheria at any time before that date was as follows:—

|                     |         | <i>Last complete course of injections<br/>(whether primary or booster)</i> |       |
|---------------------|---------|----------------------------------------------------------------------------|-------|
| <i>Born in Year</i> | 1960—64 | 1959 or earlier                                                            |       |
| 1964                | 4597    | —                                                                          |       |
| 1960—63             | 47334   | —                                                                          |       |
| 1955—59             | 43190   | 31083                                                                      |       |
| 1950—54             | 22253   | 49644                                                                      |       |
| Totals              | 1950—64 | 117374                                                                     | 80727 |

### 3. WHOOPING COUGH IMMUNISATION

During the year 1964 the number of children who completed a full course of immunisation against whooping cough was as follows:—

| <i>Year of Birth</i> |       |  |
|----------------------|-------|--|
| 1964                 | 4063  |  |
| 1963                 | 6930  |  |
| 1962                 | 905   |  |
| 1961                 | 317   |  |
| 1960                 | 132   |  |
| 1955—59              | 449   |  |
| 1950—54              | 106   |  |
| Total                | 12902 |  |

### 4. MID-YEAR CHILD POPULATION

The estimated mid-year child population for the year 1964 was:—

|                      |        |
|----------------------|--------|
| Under 1 year         | 17500  |
| 1—4 years            | 69600  |
| 5—14 years           | 145200 |
| Total under 15 years | 232300 |

### 5. VACCINATION AND IMMUNISATION, 1964

The following table shows the number of children in each Division who completed a course of immunisation or vaccination during 1964 at clinics arranged by Divisional Medical Officers or by private doctors at other places.

| Division                   | Diphtheria (only) |                | Diphtheria and Whooping Cough (only) |                | Diphtheria and Tetanus (only) |                | Whooping Cough Diphtheria and Tetanus (combined) |                | Smallpox |                |
|----------------------------|-------------------|----------------|--------------------------------------|----------------|-------------------------------|----------------|--------------------------------------------------|----------------|----------|----------------|
|                            | Clinics           | Private Doctor | Clinics                              | Private Doctor | Clinics                       | Private Doctor | Clinics                                          | Private Doctor | Clinics  | Private Doctor |
| Altrincham                 | 1                 | 2              | 1                                    | —              | 23                            | 38             | 714                                              | 1,134          | 375      | 818            |
| Bebbington                 | 23                | 18             | 1                                    | 11             | 15                            | 30             | 563                                              | 611            | 135      | 318            |
| Cheadle and Wilmslow       | —                 | —              | —                                    | —              | —                             | 4              | 405                                              | 1,127          | —        | 833            |
| Crewe                      | 25                | 9              | —                                    | 2              | —                             | 62             | —                                                | 759            | —        | 381            |
| Deeside                    | 263               | 54             | —                                    | —              | —                             | —              | 75                                               | 1,325          | 67       | 738            |
| Hyde                       | —                 | —              | —                                    | —              | 906                           | 12             | 184                                              | 164            | —        | 296            |
| Macclesfield               | 2                 | 2              | —                                    | —              | 3                             | 6              | 330                                              | 450            | 52       | 281            |
| Mid-Cheshire               | 42                | 41             | —                                    | 10             | 22                            | 119            | —                                                | 1,194          | —        | 561            |
| Nantwich                   | 20                | 19             | —                                    | 2              | 76                            | 67             | —                                                | 452            | —        | 336            |
| N.E. Cheshire              | 1,427             | 18             | —                                    | 6              | 74                            | 145            | 335                                              | 1,153          | —        | 881            |
| Runcorn                    | —                 | 11             | —                                    | —              | 1,438                         | 173            | 461                                              | 661            | 20       | 550            |
| Sale and Lymm              | —                 | 1              | 1                                    | —              | 10                            | 1              | 292                                              | 586            | 298      | 564            |
| S.E. Cheshire              | —                 | 4              | —                                    | 2              | 388                           | 59             | 475                                              | 899            | 139      | 576            |
| S.W. Cheshire              | 1,114             | 39             | 26                                   | 110            | 249                           | 46             | 1,076                                            | 789            | 257      | 686            |
| Stalybridge and Dukinfield | 5                 | —              | —                                    | —              | 147                           | 8              | 250                                              | 216            | 170      | 99             |
| TOTAL                      | 2,922             | 218            | 29                                   | 143            | 3,351                         | 770            | 5,160                                            | 11,520         | 1,513    | 7,918          |

## 6. POLIOMYELITIS VACCINATION

The County scheme was further extended in March, 1956, to include vaccination or immunisation against any other disease authorised by the Minister of Health. Approval was given by the Minister to the vaccination of children against poliomyelitis.

When vaccination of children against poliomyelitis started in 1956 only children in the 1947-54 age group were registered for vaccination, but in May, 1957, the registration of children born in 1955 and 1956 was permitted. Further extensions of the scheme have been made from time to time and now all persons under 40 years of age are approved for vaccination.

### (a) Persons completing primary immunisation in 1964

| Age Group                                                          | Number of persons<br>who have received                                                     |                                     | Total  |
|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------|--------|
|                                                                    | Second<br>injection of<br>Salk Vaccine<br>or third<br>injection of<br>quadruple<br>vaccine | Third<br>dose of<br>Oral<br>Vaccine |        |
| (a) Children born in 1964 .....                                    | 223                                                                                        | 1,632                               | 1,855  |
| (b) Children born in 1963 .....                                    | 646                                                                                        | 1,945                               | 8,591  |
| (c) Children born in 1962 .....                                    | 158                                                                                        | 2,098                               | 2,256  |
| (d) Children born in 1961 .....                                    | 57                                                                                         | 722                                 | 779    |
| (e) Children and young<br>persons born in years<br>1943-1960 ..... | 51                                                                                         | 1,078                               | 1,129  |
| (f) Young persons born in<br>years 1933-1942 .....                 | 26                                                                                         | 336                                 | 362    |
| (g) Others .....                                                   | 24                                                                                         | 410                                 | 434    |
| (h) Total .....                                                    | 1,185                                                                                      | 14,221                              | 15,406 |

### (b) Persons receiving reinforcing doses in 1964

|                                                                                                 |       |
|-------------------------------------------------------------------------------------------------|-------|
| (a) Number of persons given 3rd injection of Salk Vaccine or 4th injection of quadruple vaccine | 617   |
| (b) Number of persons given 4th injection of Salk Vaccine or 5th injection of quadruple vaccine | 162   |
| (c) Number of persons given reinforcing dose of oral vaccine after                              | 969   |
| (i) 2 Salk doses                                                                                |       |
| (ii) 3 Salk doses                                                                               |       |
| or 3 oral doses                                                                                 |       |
| or 2 Salk doses plus                                                                            |       |
| 2 Oral doses                                                                                    | 4,904 |

## SECTION IV.—AMBULANCE SERVICE

The County Council is charged with a duty under Section 27 of the National Health Service Act, 1946, to provide a comprehensive Ambulance Service throughout the County, free of charge to persons carried. The duty includes the provision of an emergency service for road accidents, and the transport of persons for treatment who are unfit to travel by public transport.

During this year, great effort has been made in consolidating the training scheme for ambulancemen and Mr. G. E. Alexander has been appointed Training Officer for the Service. The effect of in-training can be judged by the very favourable reaction of General Practitioners and Hospitals to the manner in which ambulance staff are dealing with emergency cases and routine matters. The success of the training scheme depends very largely on the quality of student and although the Service has operated during the year below strength, entrants have shown great keenness and ability to learn. Undoubtedly many good men are being prevented from joining the Ambulance Service because of their inability to drive, and in the future it is hoped that the Training Officer will be able to give driving instruction to such men.

New Ambulance Stations were opened at Grappenhall and Knutsford the former covering the area previously served by the Warrington County Borough. The Knutsford Station gives much needed cover for the M.6 Motorway, which unhappily creates many demands on the Ambulance Service and it is interesting to note that a high proportion of the accidents on this new road is due to tyre failures.

The annual competition for the Sir Wesley Emberton Cup was held at the County Grammar School, Wilmslow, and attended by the Chairman of the County Council whose unfailing support and interest is a real encouragement to the staff. The competition was won by Messrs. J. Finnigan and B. Buckley of the Northwich Ambulance Station.

The Alderman F. McBirnie Shield, for the most efficient Station during 1964, was presented by the Chairman of the County Health Committee, County Alderman G. Astbury, to the staff of the Ellesmere Port Ambulance Station.

It is a pleasure to report that the social side of the Service is developing rapidly and throughout the year events have taken place ranging from Cheadle to Pensby and Crewe to Northwich. The organisers usually have great difficulty in finding accommodation for the large numbers which attend. The Annual Dinner and Dance was held in Chester on the 14th February 1964, attended by 180 people, and demonstrated the excellent spirit which exists throughout the Service.

*Staff at 31st March, 1965:—*

|                          |                                         |
|--------------------------|-----------------------------------------|
| Control Staff (Officers) | 14                                      |
| Supervisory (Officers)   | 31                                      |
| Mechanics                | 6                                       |
| Driver/Attendants        | 198 (plus 14 part-time retained staff). |
| Others                   | 7                                       |

The following schedule shows the work done by the service for the financial year 1964-65:—

| ITEM<br>(1)                                                                                                                                                                                                                                                                                                                                                       | Directly Provided Service<br>(2)                                                                                                                                                                                       |         |           | Supplementary Service<br>(including Hospital Car Service).<br>(3) | Transport<br>by Rail<br>(4) |        |        |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------|-------------------------------------------------------------------|-----------------------------|--------|--------|-------|
|                                                                                                                                                                                                                                                                                                                                                                   | Amb.                                                                                                                                                                                                                   | S.C.A.  | S.C.C.    |                                                                   |                             |        |        |       |
| 1. No. of persons carried (excluding relatives, escorts and friends)<br>(a) Section 27 patients<br>(i) Accident or Emergency<br>(ii) Others<br>(iii) Total of (i) and (ii)<br>(b) Other persons, e.g. persons taken to day nurseries, welfare institutions, occupational centres, L.H.A. clinics, special schools, etc.<br>(c) Grand total i.e. (a) (iii) and (b) |                                                                                                                                                                                                                        |         | Total     | Amb.                                                              | S.C.A.                      | S.C.C. | Total  |       |
|                                                                                                                                                                                                                                                                                                                                                                   | 18,720                                                                                                                                                                                                                 | —       | 18,720    | —                                                                 | —                           | —      | —      |       |
|                                                                                                                                                                                                                                                                                                                                                                   | 297,176                                                                                                                                                                                                                | —       | 297,176   | 8                                                                 | —                           | 11,074 | 11,082 |       |
|                                                                                                                                                                                                                                                                                                                                                                   | 315,896                                                                                                                                                                                                                | —       | 315,896   | 8                                                                 | —                           | 11,074 | 11,082 |       |
|                                                                                                                                                                                                                                                                                                                                                                   | 24,080                                                                                                                                                                                                                 | —       | 24,080    | —                                                                 | —                           | —      | —      |       |
|                                                                                                                                                                                                                                                                                                                                                                   | 147,795                                                                                                                                                                                                                | 192,181 | 339,976   | 8                                                                 | —                           | 11,074 | 11,082 |       |
|                                                                                                                                                                                                                                                                                                                                                                   | 2. No. of journeys by vehicles<br>(a) Patient carrying journeys<br>(b) Abortive and service journeys<br>(c) Journeys for transport of analgesia apparatus, midwives, home nurses, etc.<br>(d) Total of (a) (b) and (c) | 56,114  | —         | 56,114                                                            | 8                           | —      | 3,907  | 3,915 |
|                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                        | 2,669   | —         | 2,669                                                             | —                           | —      | —      | —     |
|                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                        | 264     | —         | 264                                                               | —                           | —      | —      | —     |
|                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                        | 37,271  | 21,776    | 59,047                                                            | 8                           | —      | 3,907  | 3,915 |
| 3. Total mileage (incl. that in respect of 1 (b))                                                                                                                                                                                                                                                                                                                 | 1,017,184                                                                                                                                                                                                              | 978,310 | 1,995,494 | 72                                                                | —                           | 84,368 | 84,440 |       |
|                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                        |         |           |                                                                   |                             |        | 89,000 |       |

Population of service area — 923,690  
 Acreage of service area — 596,667

No. of ambulance stations — 20  
 No. of Ambulances — 48  
 No. of Dual Purpose Vehicles — 47

## **SECTION V.-PREVENTION OF ILLNESS, CARE AND AFTER-CARE**

---

### **1. GENERAL**

Section 28 of the National Health Service Act, 1946, gives permissive powers to the County Council to make a scheme for prevention of illness, and for the care and after-care of persons suffering from illness. The County Council has a duty to make detailed arrangements for any disease the Ministry may specify, and in this connexion tuberculosis has been so specified.

The arrangements under this section of the Act are among those which for organisation and management, within the approved estimates, have been devolved to Divisional Health Committees.

### **2. TUBERCULOSIS**

#### **(a) Home Care**

Consultant Chest Physicians, the main part of whose work at chest clinics passed to the Regional Hospital Boards on the appointed day, are part-time officers of the County Council, and give Divisional Medical Officers all necessary advice in the sphere of care and after-care; Health Visitors pay home visits to tuberculosis patients and help to secure the attendance of contacts at the clinics. The loan of large items such as beds and garden shelters, and the supply of smaller items such as sputum flasks, form part of the general scheme for the provision of nursing equipment, of which details are given later.

#### **(b) Wrenbury Hall**

Wrenbury Hall Industrial Training Colony has continued under the full ownership and control of the County Council. No trainee was admitted in 1964 for industrial rehabilitation. At the end of the year there were 10 colonists living in the hostel, and 2 married colonists living with their families in cottages on the estate. Two colonists were living outside the estate.

The following tables will enable a comparison to be made between 1964 and previous years in respect of the incidence of, and mortality due to, tuberculosis.

**(c) Tuberculosis Statistics**

|                                                                                                              | 1964       | 1963       | 1962       | 1961       |
|--------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|
| New cases notified (primary)                                                                                 |            |            |            |            |
| Pulmonary .....                                                                                              | 195        | 179        | 234        | 232        |
| New cases notified (primary)                                                                                 |            |            |            |            |
| Non-pulmonary .....                                                                                          | 38         | 25         | 33         | 35         |
| Total .....                                                                                                  | <u>233</u> | <u>204</u> | <u>267</u> | <u>267</u> |
| No. of cases remaining on<br>Registers of Notifications<br>kept by District M.O's.H.,<br>December 31st ..... | 4496       | 4618       | 5106       | 5212       |
| No. of Deaths from all forms of<br>Tuberculosis .....                                                        | 37         | 35         | 43         | 47         |
| Death-rate from all forms of<br>Tuberculosis per 1,000<br>of the population .....                            | 0.04       | 0.04       | 0.05       | 0.05       |

**TUBERCULOSIS IN CHILDREN UNDER 16**

| Year | Number<br>of Children<br>notified as<br>suffering from<br>Pulmonary<br>Tuberculosis | Number<br>of Children<br>notified as<br>suffering<br>from Non-<br>Pulmonary<br>Tuberculosis | Percentage of<br>Total Notifications |                   |
|------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------|-------------------|
|      |                                                                                     |                                                                                             | Pulmonary                            | Non-<br>Pulmonary |
| 1953 | 55                                                                                  | 45                                                                                          | 12.7                                 | 55.6              |
| 1954 | 46                                                                                  | 54                                                                                          | 12.4                                 | 62.1              |
| 1955 | 45                                                                                  | 38                                                                                          | 10.4                                 | 51.3              |
| 1956 | 40                                                                                  | 30                                                                                          | 10.2                                 | 44.1              |
| 1957 | 18                                                                                  | 26                                                                                          | 4.8                                  | 42.6              |
| 1958 | 17                                                                                  | 15                                                                                          | 5.5                                  | 34.9              |
| 1959 | 13                                                                                  | 8                                                                                           | 5.6                                  | 30.8              |
| 1960 | 11                                                                                  | 12                                                                                          | 5.2                                  | 35.3              |
| 1961 | 33                                                                                  | 13                                                                                          | 14.2                                 | 37.1              |
| 1962 | 33                                                                                  | 10                                                                                          | 14.1                                 | 30.3              |
| 1963 | 22                                                                                  | 4                                                                                           | 12.3                                 | 16.0              |
| 1964 | 11                                                                                  | 7                                                                                           | 5.7                                  | 20.0              |

# PRIMARY NOTIFICATIONS AND DEATHS FROM TUBERCULOSIS

| Year | Primary .<br>notifications | Deaths | Death rate<br>per 1,000<br>population |
|------|----------------------------|--------|---------------------------------------|
| 1945 | 669                        | 302    | ·41                                   |
| 1946 | 510                        | 310    | ·40                                   |
| 1947 | 655                        | 296    | ·38                                   |
| 1948 | 601                        | 279    | ·35                                   |
| 1949 | 565                        | 266    | ·33                                   |
| 1950 | 582                        | 195    | ·24                                   |
| 1951 | 546                        | 181    | ·22                                   |
| 1952 | 568                        | 146    | ·18                                   |
| 1953 | 514                        | 104    | ·12                                   |
| 1954 | 458                        | 113    | ·13                                   |
| 1955 | 505                        | 90     | ·11                                   |
| 1956 | 460                        | 106    | ·12                                   |
| 1957 | 435                        | 83     | ·10                                   |
| 1958 | 351                        | 66     | ·08                                   |
| 1959 | 256                        | 57     | ·06                                   |
| 1960 | 244                        | 44     | ·05                                   |
| 1961 | 267                        | 47     | ·05                                   |
| 1962 | 267                        | 43     | ·05                                   |
| 1963 | 204                        | 35     | ·04                                   |
| 1964 | 233                        | 37     | ·04                                   |

The 1964 deaths are made up as follows :—

|                     | Male      | Female   | Total     |
|---------------------|-----------|----------|-----------|
| Pulmonary .....     | 30        | 3        | 33        |
| Non-Pulmonary ..... | 1         | 3        | 4         |
|                     | <u>31</u> | <u>6</u> | <u>37</u> |

Death Rates, 1964—

|               |                             |
|---------------|-----------------------------|
| All forms     | .038 per 1000 of population |
| Pulmonary     | .034 per 1000 of population |
| Non-Pulmonary | .004 per 1000 of population |

#### SUMMARY OF NOTIFICATIONS DURING 1964

##### PART I. Number of Primary Notifications of new cases of tuberculosis

| Age Periods        | 0— | 1— | 2— | 5— | 10— | 15— | 20— | 25— | 35— | 45— | 55— | 65— | 75— | Total<br>(all<br>ages) |
|--------------------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------|
| Respiratory, Males | 1  | —  | 3  | 1  | 2   | 5   | 8   | 17  | 20  | 42  | 20  | 12  | 6   | 137                    |
| „ Females          | —  | —  | 2  | 1  | 1   | 8   | 3   | 16  | 14  | 8   | 3   | 1   | 1   | 58                     |
| Non-respiratory,   |    |    |    |    |     |     |     |     |     |     |     |     |     |                        |
| Males              | —  | —  | 2  | 3  | 2   | 1   | 2   | —   | 4   | 1   | 1   | 1   | —   | 17                     |
| „ Females          | —  | —  | —  | 1  | —   | 1   | 3   | 4   | 6   | 3   | 1   | —   | 2   | 21                     |

PART II.—New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

| Source of Information                                      | Number of Cases |    |
|------------------------------------------------------------|-----------------|----|
| Death Returns from Local Registrars—                       | Respiratory     | 14 |
|                                                            | Non-Respiratory | 3  |
| Death Returns from Registrar-General (Transferable deaths) | Respiratory     | 11 |
|                                                            | Non-Respiratory | —  |
| Posthumous Notifications                                   | Respiratory     | 1  |
|                                                            | Non-Respiratory | —  |

#### (d) Contacts

During the year 1964, approximately 1,791 contacts of tuberculous patients were examined by Chest Physicians, with the co-operation of the health visitors, who visited their homes whenever necessary. Particulars were sent as usual to the Physicians of all tuberculosis deaths (whether of notified or unnotified cases) to assist in arrangements for contact examination.

#### (e) Mass Miniature Radiography

During 1964 Mass Miniature Radiography Units from the Liverpool and Manchester Regional Hospital Boards visited sixteen areas in Cheshire, and details of the numbers examined and the abnormalities detected are given below.

| <i>X-ray Findings Confirmed</i> |                          |                                    |                            |                                              |                              |
|---------------------------------|--------------------------|------------------------------------|----------------------------|----------------------------------------------|------------------------------|
| <i>Area Visited</i>             | <i>Type of Examinees</i> | <i>Number of Examinees X-rayed</i> | <i>Active Tuberculosis</i> | <i>T.B. requiring occasional supervision</i> | <i>Carcinoma of the Lung</i> |
| <i>Liverpool Unit</i>           |                          |                                    |                            |                                              |                              |
| County Hall                     | Admin. Staff             | 666                                | 1                          | —                                            | —                            |
| Deva Hosp.                      | Patients                 | 1,406                              | 2                          | —                                            | 1                            |
| Hoylake                         | Industry                 | 71                                 | —                          | —                                            | —                            |
| Bromborough                     | Industry                 | 643                                | 1                          | 3                                            | —                            |
| Hooton                          | Industry                 | 1,509                              | —                          | 4                                            | —                            |
| Ellesmere                       |                          |                                    |                            |                                              |                              |
| Port                            | Industry                 | 1,626                              | 1                          | 3                                            | —                            |
| Neston                          | Industry                 | 279                                | —                          | —                                            | —                            |
| Runcorn                         | Industry                 | 258                                | —                          | —                                            | —                            |
| Lymm                            | General Public           | 905                                | 1                          | 1                                            | 1                            |
| <i>Manchester Unit</i>          |                          |                                    |                            |                                              |                              |
| Bredbury & Romiley              | Gen. Public & Industry   | 6,370                              | 10                         | 11                                           | 10                           |
| Crewe                           | Gen. Public & Industry   | 18,420                             | 36                         | 42                                           | 12                           |
| Hyde                            | Gen. Public & Industry   | 11,370                             | 24                         | 29                                           | 4                            |
| Marple                          | Gen. Public & Industry   | 1,276                              | 2                          | 5                                            | 1                            |
| Partington                      | Gen. Public & Industry   | 1,077                              | 7                          | 2                                            | —                            |
|                                 |                          | 45,876                             | 85                         | 100                                          | 29                           |

The Manchester Unit also visited the Alsager and Crewe Training Colleges.

## (f) B.C.G. Vaccination

The County Council's proposals under Section 28 of the National Health Service Act, 1946, for B.C.G. vaccination of contacts of tuberculous persons were approved by the Minister in 1949. They provided for B.C.G. vaccination of contacts of patients suffering from tuberculosis, such contacts being found by medical tests to be capable of receiving protection from tuberculosis, as a result of the vaccination. In 1964, the Minister gave approval to the scheme being extended to provide for the B.C.G. vaccination of children between 13 and 14 years of age. In 1959, the scheme was further extended to allow for the arrangements to cover school children of 14 years and upwards and also students attending Universities, teacher training colleges and technical colleges, or other establishments of further education.

During 1964, the chest physicians vaccinated 348 cases, and the Divisional Medical Officers vaccinated 110 cases, under the contact scheme. In addition to these, 1,734 new-born infants were vaccinated.

Divisional Medical Officers and Assistant County Medical Officers vaccinated 8,055 school children during the year and details of the work carried out under the schemes are:—

### *School Children Scheme*

|                                      |        |
|--------------------------------------|--------|
| Number of consent forms issued ..... | 14,187 |
| Number of consents received .....    | 11,006 |

|                                       | <i>Number tested</i> | <i>+ve</i> | <i>-ve</i> |
|---------------------------------------|----------------------|------------|------------|
| Skin tests .....                      | 10,306               | 1,978      | 8,108      |
| Follow-up skin test (12 months) ..... | 7,288                | 6,453      | 582        |
| Number vaccinated with B.C.G. ....    |                      |            | 8,055      |
| Number r -vaccinated with B.C.G. .... |                      |            | 506        |

| <i>Contact Scheme</i>       | <i>County Staff</i> | <i>Chest Physicians</i> | <i>Total</i> |
|-----------------------------|---------------------|-------------------------|--------------|
| Number skin tested .....    | 121                 | 553                     | 674          |
| Number found positive ..... | 11                  | 154                     | 165          |
| Number found negative ..... | 110                 | 399                     | 509          |
| Number vaccinated .....     | 110                 | 348                     | 458          |

Since the start of the Contact Scheme in 1950, and the School Children Scheme in 1954, the following numbers have been vaccinated:

### *Contacts*

|                                      |       |
|--------------------------------------|-------|
| By Chest Physicians .....            | 8,160 |
| By Divisional Medical Officers ..... | 1,911 |

### *School Children*

|                                                                            |        |
|----------------------------------------------------------------------------|--------|
| By Divisional Medical Officers and Assistant County Medical Officers ..... | 69,929 |
|----------------------------------------------------------------------------|--------|

### *Students*

By Divisional Medical Officers and Assistant County  
Medical Officers

1,541

### *Babies*

At Hospitals and Clinics

12,349

Total 93,890

## 3. MENTAL ILLNESS

The care and supervision of patients at home suffering from mental illness was carried out by Mental Welfare Officers. Arrangements are made, in suitable cases, for help to be given by other County services, such as Home Nursing and Domestic Help.

Details of the Mental Health Service are given in Section VIII later in this Report.

#### 4. CO-OPERATION WITH HOSPITALS AND GENERAL PRACTITIONERS

Liaison has been continued with the Almoners and other appropriate officials of general hospitals so that discharged patients requiring help from any of the County Health Services may secure it without delay. All hospitals have been supplied with forms on which they can send a request to the Divisional Medical Officer for any of the County Health services when a patient is discharged from hospital. The services of a domestic help and a district nurse are also available on request from the general practitioner to help a mother to nurse a child at home and avoid the admission of the child to hospital.

At two large hospitals in the County, health visitors attend the Geriatric clinics to provide information for the specialists and to receive information which is passed on to the health visitors for the districts in which the patients live. Similar arrangements exist at other hospitals in the County at clinics conducted by Paediatricians and Chest Physicians.

It is not yet practicable for a health visitor to be attached to each general practitioner in Cheshire, as there are many more doctors than health visitors, but a trial is being made by the attachment of health visitors to general practitioners in Hattersley, Partington and Stalybridge. All practitioners have received full details of the help which health visitors can give and have been told where health visitors can be contacted between 9 and 9-30 a.m. each day. Each practitioner has also received one of the eight separate editions of a guide for general practitioners, setting out details of the County services available in his own area, together with other useful information.

#### 5. PROBLEM FAMILIES

Another aspect of "care" is the investigation of "problem families" with a view to effecting any possible improvement and granting any appropriate help. At the end of the year 352 families were on the registers kept by the Divisional Medical Officers.

##### (a) General

#### 6. HEALTH EDUCATION

An important aspect of "prevention of illness" is health education. and details of the ways in which this is carried out are given below. Routine health education is given by members of the staff, particularly the health visitors, to individuals and small groups, and supplies of leaflets and books are available at the Infant Welfare Centres, Ante-natal and Young Children's clinics. At the clinic centres a variety of posters are also displayed. The subjects covered are concerned with home safety, the care of babies and young children, and vaccination and immunisation. Comment is made (page 99) on Health Education for expectant mothers and the parents of young children.

The Divisional Medical Officers are continually being called on to give lectures to local organisations on such subjects as home accidents, coronary thrombosis, mental health, smallpox, and the connection between tobacco smoking and lung cancer. Courses on First Aid were

also arranged. The health visitors are much in demand for lectures to mothercraft classes and young wives' associations, etc.

Whenever the opportunity occurs at local exhibitions displays publicising the health services are staged.

Each division has a filmstrip projector, and there are at present about 200 filmstrips on about seventy different subjects available in the County for use in any division. The subjects covered include prevention of illness, home safety, nutrition, mental health, care of babies, vaccination and immunisation, personal and home hygiene. Another form of visual aid used at lectures is the flannelgraph, and there are a variety of subjects covered by this form of display.

At County headquarters a stock is kept of approximately 100 different leaflets on a large variety of subjects for issue free to the public through the divisional medical officers and the health visitors.

### **(b) Cancer Education**

Efforts continued to be made to educate the public about cancer, and the County Health Committee makes large contributions to the cost of the work carried out by the Manchester Committee on Cancer, which operates in that area of the County covered by the Manchester Regional Hospital Board and the Merseyside Cancer Education Committee which covers the rest of the county

The Manchester Committee's skilled lecturers—mostly doctors who are specialists in cancer at the Christie Hospital—are available to any club or society, free of charge, to speak about the hopeful side of cancer and answer questions. During 1964 the committee arranged 88 such talks in Cheshire.

The films "From One Cell" and "To Smoke or Not to Smoke" are available on free loan to any school in the area. The committee's officers are also ready to offer advice to any schools wishing to incorporate basic information about cancer into science subjects and, if necessary, to supply expert speakers. 11 schools and youth clubs in the county made use of the services in 1964, and, in addition, copies of the Penguin book "Common Sense About Smoking" have been supplied, free of charge, to every secondary school head-teacher and every schools medical officer. From the letters of acknowledgement it is clear that many schools are finding this excellent book of great help in passing on to children information about the dangers of smoking.

The Committee's Mobile Unit was acquired to bring information to those people who belong to no club or society, and who would otherwise have no opportunity of hearing one of the speakers. 13 talks and film shows were given in factories and offices in the region.

During 1964, the full first year the Merseyside Cancer Education Committee was in operation, 47 lectures were given with an average attendance of 44.

In-service training courses have been arranged for Health Visitors, District Nurses and Midwives in the following areas:—Ellesmere Port, Chester rural district and Runcorn urban and rural districts. Further

in-service training courses have been arranged for other parts of Cheshire. Divisional Medical Officers and Nursing Staff who have attended these in-service courses have found them stimulating and helpful. Several of the staff have, as a result of these courses, taken a greater interest in our work and assisted us to gain entry to local public organisations.

### (c) Home Safety

The formation of local Home Safety Committees, on which representatives of the Divisional Health Committees could serve, if necessary, has been left to voluntary societies. The County Health Committee has made grants to four such societies, at Bebington, Nantwich, Hazel Grove and Sale.

Eight editions of a Home Safety handbook are distributed to the public showing the ways in which accidents in the home occur and the ways in which they can be avoided. The handbooks also give details of the services available in each of the eight areas.

Health education is also furthered by displaying the work of the department on stalls whenever the opportunity occurs at agricultural shows and other public exhibitions.

### (d) Venereal Disease

Health education in this field has largely been carried out by the display in all public conveniences of posters on this subject, together with details of the address of the special clinic and clinic times. The number of new cases living in the administrative County attending special clinics is given below:—

| <i>Clinic</i>        | <i>Syphilis</i> | <i>Gonorrhoea</i> | <i>Other conditions</i> | <i>Total Cases</i> |
|----------------------|-----------------|-------------------|-------------------------|--------------------|
| Ashton .....         | 4               | 11                | 28                      | 43                 |
| Chester .....        | 4               | 19                | 110                     | 133                |
| Birkenhead .....     | 2               | 22                | 141                     | 165                |
| Crewe .....          | 2               | 19                | 80                      | 101                |
| Liverpool .....      | 3               | 43                | 207                     | 253                |
| Macclesfield .....   | 4               | 7                 | 35                      | 46                 |
| Manchester .....     | —               | 83                | 254                     | 337                |
| Stockport .....      | 2               | 10                | 96                      | 108                |
| Stoke-on-Trent ..... | —               | 1                 | 15                      | 16                 |
|                      | <hr/> 21        | <hr/> 215         | <hr/> 966               | <hr/> 1,202        |

## 7. NURSING EQUIPMENT

Stocks of nursing equipment are held by District Nurses and by Divisional Medical Officers for loan to patients needing them, subject to a small deposit charge in the case of the more expensive items. Examples of the small items normally kept by District Nurses are urinals, hot water bottles, bed pans, feeding cups, sputum flasks, steam kettles, air rings and back rests.

Divisional Medical Officers make available larger items of equipment such as mattresses, beds, bed cradles, crutches, rubber sheets, etc., and keep reserve stocks of the items held by the Home Nurses. Bedding is also kept for issue in special cases, *e.g.*, when a patients' small stock has to be taken away for disinfection or disinfestation, or to provide for house isolation of patients.

The following table gives the main items held by Divisional Medical Officers or in stock at Winsford store:—

|                          |                               |
|--------------------------|-------------------------------|
| Bedpans, Rubber          | Hoists                        |
| Bedpans, large           | Hospital type beds            |
| Bedpans, medium          | Pulley attachments for        |
| Bedpans, small           | hospital type beds            |
| Toilet seats, inflatable | Hospital type cot beds        |
| Rings, foam rubber       | Mattresses, foam rubber       |
| Rings, air               | Air/Water beds                |
| Urinals, male            | Walking aids                  |
| Urinals, female          | Electric blanket              |
| Beds, ordinary           | Wheelchair, motorised         |
| Bed Cradles              | Special Beds with various     |
| Mattresses               | attachments                   |
| Bed Trays                | Mobile invalid seat           |
| Blankets                 | Travelling folding wheelchair |
| Sheets                   | Leg extension to standard     |
| Draw Sheets              | type wheelchair               |
| Pillows                  | 7 in 1 walking and            |
| Pillow cases             | exercising aid                |
| Commodes                 | Spastic chairs                |
| Douche pans              | Wheelchairs, push type        |
| Sputum cups              | Wheelchairs, capable of       |
| Paper handkerchiefs      | being propelled by patient    |
| Breast pumps             | Self-lifting poles            |
| Stair carriage           | Enuresis alarms               |
| Crutches                 | Spinal carriage               |
| Rubber sheets            | T.B. Shelters                 |
| Feeding cups             | Folding triangular frame      |
| Steam kettles            | Ejector seat                  |
| Hot water bottles        | Fracture boards               |
| Back rests               | Toilet seat aid               |
| Sputum flasks            | Bath aids                     |
| Walking sticks           | Bath steps                    |
| Disposable underpads     | Bath, special mat             |

## 8. RECUPERATIVE CONVALESCENCE

During the year 1964, 146 patients were sent for recuperative convalescence for periods of between two and eight weeks. Contributions were paid by the patients towards the cost of this convalescence in accordance with the County scale. Thirty-four of the cases were mothers and children sent to the Brentwood Recuperative Centre,

Marple. This centre caters mainly for women of limited resources with young children who need a period of recuperation following hospital treatment, mental and physical distress arising from difficult domestic circumstances, bad housing, etc., or prior and subsequent to confinement. The distribution of cases throughout the County was as follows:—

| Division             | No. of Cases | Division                 | No. of Cases |
|----------------------|--------------|--------------------------|--------------|
| Altrincham           | 9            | Nantwich                 | 2            |
| Bebington            | 10           | North East Cheshire      | 4            |
| Cheadle and Wilmslow | 4            | Runcorn                  | 5            |
| Crewe                | 18           | Sale and Lymm            | 19           |
| Deeside              | 8            | South East Cheshire      | 15           |
| Hyde                 | 20           | South West Cheshire      | 9            |
| Macclesfield         | 1            | Stalybridge & Dukinfield | 18           |
| Mid-Cheshire         | 4            |                          |              |

Also 82 mentally subnormal children and 6 adults were found accommodation for short periods during the year, under Section 28.

#### 9. SPECIAL LAUNDRY

This service is available for incontinent aged and handicapped persons who are receiving the attention of a home help or a domiciliary nurse. Special bags are provided in which the bundle of dirty clothing is placed. It is collected, and the normal practice is to deliver it to the nearest hospital which has agreed to carry out the laundering of the articles. Patients pay according to their means, with a maximum charge of 5s. 0d. per bundle, although these charges can be varied in exceptional circumstances. The following work under this heading was carried out during the year:—

| Number of |      | Charges to Patients |              |     |
|-----------|------|---------------------|--------------|-----|
| Patients  | Bags | Full                | Intermediate | Nil |
| 8         | 224  | 2                   | 1            | 5   |

The supply of disposable underpads free of charge to patients receiving the services of a district nurse has considerably reduced the demand on the special laundry service.

#### 10. SITTERS-IN

Facilities exist to supplement, in specially approved cases, the Domestic Help service by means of night sitters-in and in 1964 three patients were assisted in this way.

#### 11. CHIROPODY SERVICE

Details of the County Chiropody Service, which has been in operation since 1/10/59, are as follows:—

- (a) The service is available to persons over the age of 65 years, physically handicapped persons and expectant mothers recommended for treatment by their family doctor or the district nurse.

- (b) All chiropodists holding a qualification laid down in the National Health Service (Medical Auxiliaries) Regulations, 1954, are entitled to take part, giving treatment in their own premises or in the patient's own home.
- (c) Persons entitled to the service may attend any registrable chiropodist of their own choice who is willing to take part in the scheme.
- (d) A patient unable to travel to the chiropodist's surgery may have the treatment carried out at home and for this the chiropodist receives an extra fee.
- (e) The fees for treatment on the premises of a voluntary society are paid direct to the society which makes its own arrangements with the chiropodist.
- (f) The Authority pays the whole of the fees in respect of persons in receipt of National Assistance benefit or whose sole income is the statutory retirement pension.

The following scale of aid was in operation in 1964:—

|                                           |                                                                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Free treatment—                           | Those in receipt of National Assistance benefit or whose income does not exceed<br>£4 13s. 6d. per week in the case of single persons, or £6 19s. 6d. per week in the case of married persons |
| Half cost paid by Cheshire County Council | When income between £4 13s. 7d. and £6 3s. 6d. per week in the case of single persons.<br>When income between £6 19s. 7d. and £8 19s. 6d. per week in the case of married persons.            |

The Divisional Health Committees have power to vary these payments in exceptional or necessitous cases.

In agreement with representatives of the chiropodists, only six treatments are authorised under the County scheme in the first six months after approval is given to an application for treatment. Following that, six treatments can be approved within the ensuing twelve months. The divisional medical officers are able to authorise more frequent treatments in exceptional cases.

The table overleaf gives details of the work carried out during 1964.

CHIROPODY SERVICE 1964

| Division                   | Place of Treatment     |             |                 |             | Club  |             | Total  |             | Fees paid by C.C.C. |       |
|----------------------------|------------------------|-------------|-----------------|-------------|-------|-------------|--------|-------------|---------------------|-------|
|                            | Chiroprapist's Surgery |             | Home of Patient |             | Cases | Treat-ments | Cases  | Treat-ments | Full                | Part  |
|                            | Cases                  | Treat-ments | Cases           | Treat-ments |       |             |        |             |                     |       |
| Altrincham                 | 507                    | 1824        | 226             | 1128        | 20    | 77          | 753    | 3029        | 676                 | 77    |
| Bebington                  | 152                    | 876         | 379             | 1925        | —     | —           | 531    | 2801        | 442                 | 79    |
| Cheadle and Wilmslow       | 625                    | 3770        | 324             | 2230        | 77    | 454         | 1026   | 6454        | 920                 | 106   |
| Crewe                      | 576                    | 2825        | 216             | 1076        | —     | —           | 792    | 3901        | 717                 | 75    |
| Deeside                    | 208                    | 1180        | 220             | 1162        | —     | —           | 428    | 2342        | 367                 | 61    |
| Hyde                       | 497                    | 2568        | 437             | 2383        | —     | —           | 934    | 4951        | 855                 | 79    |
| Macclesfield               | 243                    | 1444        | 264             | 1337        | —     | —           | 507    | 2781        | 401                 | 106   |
| Mid-Cheshire               | 414                    | 2077        | 256             | 1176        | —     | —           | 670    | 3253        | 592                 | 78    |
| Nantwich                   | 211                    | 1003        | 122             | 438         | 23    | 75          | 356    | 1516        | 314                 | 42    |
| N.E. Cheshire              | 404                    | 2268        | 325             | 1714        | —     | —           | 729    | 3982        | 664                 | 65    |
| Runcorn                    | 290                    | 1374        | 314             | 1561        | —     | —           | 604    | 2935        | 563                 | 39    |
| Sale and Lymm              | 280                    | 1778        | 186             | 1161        | —     | —           | 466    | 2939        | 416                 | 50    |
| S.E. Cheshire              | 433                    | 2242        | 399             | 1773        | 1     | 22          | 833    | 4037        | 748                 | 85    |
| S.W. Cheshire              | 443                    | 2415        | 382             | 1871        | —     | —           | 825    | 4286        | 765                 | 60    |
| Stalybridge and Dukinfield | 463                    | 2999        | 406             | 2354        | —     | —           | 869    | 5353        | 818                 | 51    |
| TOTALS                     | 5,746                  | 30,643      | 4,456           | 23,289      | 121   | 628         | 10,323 | 54,560      | 9,258               | 1,053 |
| Category of patients:—     |                        |             |                 |             |       |             |        |             |                     |       |
| (a) Over 65 years          | 5,568                  | 29,568      | 4,112           | 21,381      | 119   | 620         | 9,799  | 51,569      |                     |       |
| (b) Physically handicapped | 178                    | 1,075       | 344             | 1,908       | 2     | 8           | 524    | 2,991       |                     |       |
| (c) Expectant Mothers      | —                      | —           | —               | —           | —     | —           | —      | —           |                     |       |

## 12. INFECTIOUS DISEASES

In order that Divisional Health Committees may have a continuous picture of the incidence of infectious diseases in their areas, Divisional Offices receive full particulars of notified cases, and the County Council repays to District Councils, in accordance with the National Health Service Act, the notification fees paid to doctors.

The following table gives the number of cases notified under the various headings during the year 1964.

|                               | Scarlet Fever | Whooping Cough | Acute Poliomyelitis Paralytic | Acute Poliomyelitis Non-Paralytic | Measles (excluding Rubella) | Diphtheria | Acute Pneumonia | Dysentery | Smallpox | Acute Encephalitis Infective |
|-------------------------------|---------------|----------------|-------------------------------|-----------------------------------|-----------------------------|------------|-----------------|-----------|----------|------------------------------|
| Altrincham M.B.               | 19            | 15             | —                             | —                                 | 313                         | —          | 4               | 1         | —        | —                            |
| Bebington M.B.                | 22            | 86             | —                             | —                                 | 610                         | —          | 16              | 62        | —        | —                            |
| Congleton M.B.                | 12            | 21             | —                             | —                                 | 305                         | —          | 15              | —         | —        | —                            |
| Crewe M.B.                    | 42            | 309            | 1                             | —                                 | 524                         | —          | 1               | —         | —        | —                            |
| Dukinfield M.B.               | 1             | 2              | —                             | —                                 | 91                          | —          | —               | 42        | —        | —                            |
| Ellesmere Port M.B.           | 26            | 36             | —                             | —                                 | 687                         | —          | 3               | 146       | —        | —                            |
| Hyde M.B.                     | 12            | 16             | —                             | —                                 | 269                         | —          | —               | 14        | —        | —                            |
| Macclesfield M.B.             | 38            | 13             | —                             | —                                 | 452                         | —          | 1               | 1         | —        | —                            |
| Sale M.B.                     | 57            | 22             | —                             | —                                 | 352                         | —          | 2               | 5         | —        | —                            |
| Stalybridge M.B.              | 2             | 35             | —                             | —                                 | 326                         | —          | —               | 5         | —        | —                            |
| Alderley Edge U.D.            | —             | 1              | —                             | —                                 | 28                          | —          | —               | 2         | —        | —                            |
| Alsager U.D.                  | —             | 1              | —                             | —                                 | 32                          | —          | 4               | —         | —        | —                            |
| Bollington U.D.               | —             | 9              | —                             | —                                 | 105                         | —          | —               | —         | —        | —                            |
| Bowdon U.D.                   | 1             | 4              | —                             | —                                 | 37                          | —          | —               | —         | —        | —                            |
| Bred. and Rom. U.D.           | 8             | —              | —                             | —                                 | 232                         | —          | —               | 1         | —        | —                            |
| Cheadle and Gatley U.D.       | 11            | 10             | —                             | —                                 | 341                         | —          | —               | —         | —        | —                            |
| Hale U.D.                     | —             | 5              | 1                             | —                                 | 136                         | —          | —               | 3         | —        | —                            |
| Hazel Grove and Bramhall U.D. | 2             | 6              | —                             | —                                 | 313                         | —          | —               | —         | —        | —                            |
| Hoylake U.D.                  | 4             | 8              | —                             | —                                 | 373                         | —          | 1               | 53        | —        | —                            |
| Knutsford U.D.                | —             | —              | —                             | —                                 | 217                         | —          | —               | 2         | —        | —                            |
| Longdendale U.D.              | —             | —              | —                             | —                                 | 38                          | —          | 4               | —         | —        | —                            |
| Lymm U.D.                     | —             | —              | —                             | —                                 | 5                           | —          | —               | —         | —        | —                            |
| Marple U.D.                   | —             | 7              | —                             | —                                 | 194                         | —          | —               | 3         | —        | —                            |
| Middlewich U.D.               | —             | —              | —                             | —                                 | 21                          | —          | 1               | —         | —        | —                            |
| Nantwich U.D.                 | 3             | 8              | —                             | —                                 | 144                         | —          | —               | —         | —        | —                            |
| Neston U.D.                   | —             | —              | —                             | —                                 | 215                         | —          | 1               | 1         | —        | —                            |
| Northwich U.D.                | 18            | 26             | —                             | —                                 | 185                         | —          | —               | 1         | —        | —                            |
| Runcorn U.D.                  | 10            | 18             | —                             | —                                 | 358                         | —          | —               | 9         | —        | —                            |
| Sandbach U.D.                 | —             | —              | —                             | —                                 | 55                          | —          | —               | —         | —        | —                            |
| Wilmslow U.D.                 | 1             | —              | —                             | —                                 | 105                         | —          | —               | 5         | —        | —                            |
| Winsford U.D.                 | 6             | —              | —                             | —                                 | 165                         | —          | 4               | —         | —        | —                            |
| Wirral U.D.                   | 4             | 3              | —                             | —                                 | 335                         | —          | 2               | 10        | —        | —                            |
| Bucklow R.D.                  | —             | 4              | —                             | —                                 | 122                         | —          | 1               | 186       | —        | —                            |
| Chester R.D.                  | 8             | 15             | —                             | —                                 | 134                         | —          | 1               | 12        | —        | —                            |
| Congleton R.D.                | 4             | 10             | —                             | —                                 | 243                         | —          | 11              | 3         | —        | —                            |
| Disley R.D.                   | 3             | —              | —                             | —                                 | 50                          | —          | —               | —         | —        | —                            |
| Macclesfield R.D.             | 6             | 4              | —                             | —                                 | 187                         | —          | —               | 1         | —        | —                            |
| Nantwich R.D.                 | 7             | 75             | —                             | —                                 | 367                         | —          | 2               | —         | —        | —                            |
| Northwich R.D.                | 13            | 16             | —                             | —                                 | 451                         | —          | 3               | 2         | —        | —                            |
| Runcorn R.D.                  | 29            | 19             | —                             | —                                 | 282                         | —          | 19              | 1         | —        | —                            |
| Tarvin R.D.                   | 15            | 30             | —                             | —                                 | 36                          | —          | 9               | 1         | —        | —                            |
| Tintwistle R.D.               | —             | —              | —                             | —                                 | 5                           | —          | —               | 4         | —        | —                            |
| TOTAL.                        | 384           | 834            | 2                             | —                                 | 9440                        | —          | 105             | 576       | —        | —                            |

|                                  | Acute<br>Encephalitis<br>Post Infective | Enteric or<br>Typhoid Fever | Paratyphoid<br>Fever | Erysipelas | Meningococcal<br>Infection | Food Poisoning | Tuberculosis<br>Respiratory | Tuberculosis<br>Meninges<br>and C.N.S. | Tuberculosis<br>Other | Puerperal<br>Pyrexia | Ophthalmia<br>Neonatorum |
|----------------------------------|-----------------------------------------|-----------------------------|----------------------|------------|----------------------------|----------------|-----------------------------|----------------------------------------|-----------------------|----------------------|--------------------------|
| Altrincham M.B.                  | —                                       | —                           | —                    | —          | —                          | —              | 13                          | 2                                      | —                     | —                    | —                        |
| Bebington M.B.                   | —                                       | —                           | —                    | 3          | —                          | 22             | 10                          | —                                      | —                     | —                    | —                        |
| Congleton M.B.                   | —                                       | —                           | —                    | 1          | —                          | —              | 6                           | —                                      | 1                     | —                    | —                        |
| Crewe M.B.                       | —                                       | —                           | —                    | 1          | —                          | 1              | 12                          | —                                      | 1                     | —                    | —                        |
| Dukinfield M.B.                  | —                                       | —                           | —                    | —          | —                          | 1              | 8                           | —                                      | 3                     | —                    | —                        |
| Ellesmere Port M.B.              | —                                       | —                           | —                    | 3          | —                          | 4              | 11                          | —                                      | 1                     | 1                    | 1                        |
| Hyde M.B.                        | —                                       | 2                           | —                    | 1          | —                          | —              | 22                          | —                                      | 1                     | 3                    | —                        |
| Macclesfield M.B.                | —                                       | —                           | —                    | 1          | —                          | 1              | 4                           | —                                      | 1                     | —                    | —                        |
| Sale M.B.                        | —                                       | —                           | —                    | —          | —                          | 3              | 12                          | 1                                      | —                     | 1                    | —                        |
| Stalybridge M.B.                 | —                                       | —                           | —                    | 1          | —                          | —              | 3                           | —                                      | 3                     | —                    | —                        |
| Alderley Edge U.D.               | —                                       | —                           | —                    | —          | —                          | —              | 1                           | —                                      | —                     | —                    | —                        |
| Alsager U.D.                     | —                                       | —                           | —                    | —          | —                          | —              | 3                           | —                                      | 2                     | 1                    | —                        |
| Bollington U.D.                  | —                                       | —                           | —                    | —          | —                          | —              | —                           | —                                      | 1                     | —                    | —                        |
| Bowdon U.D.                      | —                                       | —                           | 1                    | —          | —                          | —              | —                           | —                                      | —                     | —                    | —                        |
| Bred. and Rom. U.D.              | —                                       | —                           | —                    | —          | —                          | 2              | 6                           | —                                      | 3                     | 3                    | —                        |
| Cheadle and<br>Gatley U.D.       | —                                       | —                           | —                    | —          | —                          | 54             | 9                           | —                                      | 2                     | —                    | —                        |
| Hale U.D.                        | —                                       | —                           | —                    | —          | —                          | 2              | 6                           | —                                      | 1                     | —                    | —                        |
| Hazel Grove and<br>Bramhall U.D. | —                                       | —                           | —                    | —          | —                          | 1              | 4                           | —                                      | 3                     | 2                    | —                        |
| Hoylake U.D.                     | —                                       | 1                           | —                    | —          | —                          | 5              | 9                           | 1                                      | —                     | —                    | —                        |
| Knutsford U.D.                   | —                                       | —                           | —                    | —          | —                          | —              | —                           | —                                      | —                     | —                    | —                        |
| Longdendale U.D.                 | —                                       | —                           | —                    | —          | —                          | —              | 1                           | —                                      | —                     | —                    | —                        |
| Lymm U.D.                        | —                                       | —                           | —                    | —          | —                          | —              | —                           | —                                      | —                     | —                    | —                        |
| Marple U.D.                      | —                                       | —                           | —                    | —          | —                          | —              | 4                           | —                                      | 2                     | —                    | —                        |
| Middlewich U.D.                  | —                                       | —                           | —                    | —          | —                          | —              | —                           | —                                      | —                     | —                    | —                        |
| Nantwich U.D.                    | —                                       | —                           | —                    | —          | 1                          | —              | —                           | —                                      | —                     | 3                    | —                        |
| Neston U.D.                      | —                                       | —                           | —                    | —          | —                          | —              | 5                           | —                                      | 1                     | —                    | —                        |
| Northwich U.D.                   | —                                       | —                           | —                    | —          | —                          | —              | —                           | —                                      | —                     | —                    | —                        |
| Runcorn U.D.                     | —                                       | —                           | —                    | 3          | 1                          | 1              | 3                           | —                                      | —                     | 1                    | —                        |
| Sandbach U.D.                    | —                                       | —                           | —                    | —          | —                          | —              | 1                           | —                                      | —                     | —                    | —                        |
| Wilmslow U.D.                    | —                                       | —                           | —                    | —          | —                          | 3              | 7                           | —                                      | —                     | —                    | —                        |
| Winsford U.D.                    | 1                                       | —                           | —                    | —          | —                          | —              | —                           | —                                      | —                     | —                    | —                        |
| Wirral U.D.                      | —                                       | —                           | —                    | 1          | —                          | 1              | 5                           | —                                      | —                     | —                    | —                        |
| Bucklow R.D.                     | —                                       | —                           | —                    | —          | —                          | —              | 9                           | —                                      | —                     | —                    | —                        |
| Chester R.D.                     | —                                       | —                           | —                    | —          | —                          | 28             | 5                           | —                                      | —                     | 2                    | —                        |
| Congleton R.D.                   | 1                                       | —                           | —                    | 9          | —                          | 5              | 3                           | —                                      | 1                     | —                    | —                        |
| Disley R.D.                      | —                                       | —                           | —                    | —          | —                          | —              | —                           | —                                      | —                     | —                    | —                        |
| Macclesfield R.D.                | 1                                       | —                           | 1                    | —          | 1                          | 1              | 2                           | —                                      | 1                     | 1                    | —                        |
| Nantwich R.D.                    | —                                       | —                           | —                    | 2          | 1                          | —              | 2                           | 1                                      | 2                     | 1                    | —                        |
| Northwich R.D.                   | 1                                       | —                           | —                    | —          | —                          | —              | 2                           | —                                      | —                     | —                    | —                        |
| Runcorn R.D.                     | —                                       | —                           | —                    | 1          | —                          | —              | 5                           | —                                      | 2                     | 1                    | 1                        |
| Tarvin R.D.                      | —                                       | —                           | —                    | —          | —                          | —              | 2                           | —                                      | —                     | —                    | —                        |
| Tintwistle R.D.                  | —                                       | —                           | —                    | —          | —                          | —              | —                           | —                                      | 1                     | —                    | —                        |
| TOTAL                            | 4                                       | 3                           | 2                    | 27         | 4                          | 135            | 195                         | 5                                      | 33                    | 20                   | 2                        |

The following Table shows the variation in notifications of the principal Infectious Diseases during the past ten years:—

| Notifications                          | 1964 | 1963  | 1962 | 1961  | 1960 | 1959  | 1958 | 1957  | 1956  | 1955  |
|----------------------------------------|------|-------|------|-------|------|-------|------|-------|-------|-------|
| Measles                                | 9440 | 11130 | 4762 | 13645 | 3681 | 11809 | 4504 | 11048 | 3218  | 10450 |
| Scarlet Fever                          | 384  | 345   | 386  | 439   | 693  | 1049  | 958  | 561   | 733   | 688   |
| Whooping<br>Cough                      | 834  | 522   | 125  | 294   | 1072 | 729   | 367  | 1046  | 18771 | 210   |
| Poliomyelitis                          | 2    | 3     | 4    | 18    | 9    | 14    | 31   | 35    | 131   | 57    |
| Diphtheria                             | 0    | 0     | 0    | 0     | 1    | 0     | 1    | 2     | 0     | 0     |
| Smallpox                               | 0    | 0     | 0    | 0     | 0    | 0     | 5    | 0     | 0     | 0     |
| Tuberculosis:—                         |      |       |      |       |      |       |      |       |       |       |
| Pulmonary,<br>all ages                 | 195  | 172   | 234  | 219   | 210  | 230   | 308  | 374   | 392   | 431   |
| Non-pulmonary,<br>all ages             | 38   | 21    | 33   | 41    | 34   | 26    | 43   | 61    | 68    | 74    |
| Pulmonary,<br>Children<br>under 15     | 11   | 21    | 17   | 22    | 11   | 13    | 17   | 18    | 40    | 45    |
| Non-pulmonary,<br>Children<br>under 15 | 7    | 4     | 8    | 11    | 12   | 8     | 15   | 26    | 30    | 38    |

## SECTION VI-MOTHERS AND YOUNG CHILDREN

### HEALTH VISITING, ETC...

#### 1. GENERAL

The County Council's responsibilities under Sections 22 and 24 of the National Health Service Act, 1946, are in the main a continuation of work which has been done for many years, though the Health Visitors' services are now also used to carry out the Council's schemes for prevention of illness, after-care, and handicapped persons.

#### 2. HEALTH VISITING

Number of health visitors employed 31/12/1964—125

| <i>Type of Cases visited during the year</i>                                                  | <i>Number of Cases</i> |
|-----------------------------------------------------------------------------------------------|------------------------|
| 1. Children born in 1964                                                                      | 21,517                 |
| 2. Children born in 1963                                                                      | 26,971                 |
| 3. Children born in 1959-62                                                                   | 47,551                 |
| 4. Total children                                                                             | 96,039                 |
| 5. Persons aged 65 or over                                                                    | 5,308                  |
| 6. Number included in line 5 who were visited at the special request of a G.P. or hospital    | 1,280                  |
| 7. Persons (excluding maternity cases) discharged from hospital (other than mental hospitals) | 415                    |
| 8. Number included in line 7 who were visited at the special request of a G.P. or hospital    | 349                    |
| 9. Number of tuberculous households visited                                                   | 2,144                  |
| 10. Number of households visited on account of other infectious diseases                      | 262                    |

#### 3. BIRTHS

##### (a) Notification of Births

The distribution of the births to Cheshire mothers notified under the Public Health Act, 1936, was as follows :—

| Domiciliary | Nursing Homes | Hospitals |
|-------------|---------------|-----------|
| 5243        | 74            | 12838     |

##### (b) Premature Infants

Particular attention is devoted to babies weighing  $5\frac{1}{2}$  lbs. or less at birth, and special cots with bedding, hot water bottles, etc., are kept in readiness. 1020 premature live babies were born in the year

under review, whose mothers normally live in the Authority's area and of these 882 survived 28 days. The details are:—

|                                                      | Number<br>of Live<br>Births | Died<br>within<br>24 hours | Died<br>1—28 days | Survived<br>28 days |
|------------------------------------------------------|-----------------------------|----------------------------|-------------------|---------------------|
| Born in Hospital .....                               | 865                         | 87                         | 39                | 739                 |
| Born at home or in a Nursing<br>Home and             |                             |                            |                   |                     |
| (a) Nursed entirely there                            | 113                         | 5                          | 1                 | 107                 |
| (b) Transferred to Hospital<br>on or before 28th day | 42                          | 4                          | 2                 | 36                  |
|                                                      | 1020                        | 96                         | 42                | 882                 |

There were 149 premature stillbirths, 130 being delivered in hospital and 19 at home or in a nursing home

At eleven places around the County, special heated containers are always available should any small or premature baby require conveying to hospital. The Ambulance Service collects the container from the nearest address, conveys it to the home of the baby and then takes the baby to hospital.

#### 4. PUERPERAL PYREXIA

20 cases of Puerperal Pyrexia were notified during the year, 2 being domiciliary and 18 institutional confinements.

#### 5. MATERNAL MORTALITY

The maternal mortality for 1964, *i.e.*, number of deaths due to pregnancy, childbirth or abortion, per 1,000 live and still births, was 0.22.

#### 6. ANTE-NATAL AND POST-NATAL CLINICS

The number of Ante-Natal clinics conducted by Doctors was 22. The Regional Hospital Boards pay for a proportion of the sessions attended by specialist obstetricians. In some areas there are other doctors' clinics, and in many districts midwives' clinics have been established.

The following tables give particulars of County clinics held during 1964:—

Doctors' Clinics

| Clinic                     | No. of Sessions | ANTE-NATAL  |           |                                          | Post-NATAL  |     |
|----------------------------|-----------------|-------------|-----------|------------------------------------------|-------------|-----|
|                            |                 | Attendances | New cases | No. of patients attended during the year | Attendances |     |
| Bredbury                   | 24              | 317         | 150       | 150                                      | —           |     |
| Cheadle                    | 48              | 134         | 80        | 84                                       | 3           |     |
| Congleton                  | 50              | 440         | 84        | 38                                       | 13          |     |
| Eastham                    | 50              | 824         | 144       | 114                                      | 66          |     |
| Ellesmere Port             | 101             | 2082        | 468       | 608                                      | 127         |     |
| Frodsham                   | 51              | 1343        | 141       | 202                                      | 11          |     |
| Hazel Grove                | 24              | 167         | 75        | 74                                       | 1           |     |
| Heswall                    | 51              | 1002        | 179       | 185                                      | 83          |     |
| Hoylake                    | 51              | 1431        | 226       | 292                                      | 90          |     |
| Hyde                       | 51              | 974         | 308       | 366                                      | —           |     |
| Hattersley*                | 13              | 124         | 22        | 20                                       | 4           |     |
| Little Sutton              | 49              | 695         | 143       | 198                                      | 69          |     |
| Macclesfield Bridge Street | 23              | 858         | 281       | 281                                      | —           |     |
| Hurdsfield House           | 12              | 278         | 81        | 81                                       | —           |     |
| Sanders Square             | 12              | 214         | 59        | 64                                       | —           |     |
| Neston                     | 48              | 958         | 157       | 160                                      | 75          |     |
| New Ferry                  | 50              | 204         | 52        | 23                                       | 9           |     |
| Partington                 | 50              | 1440        | 236       | 36                                       | 138         |     |
| Runcorn                    | 52              | 879         | 225       | 288                                      | 3           |     |
| Sale                       | 51              | 830         | 211       | 256                                      | 3           |     |
| Stalybridge                | 32              | 105         | 24        | 25                                       | 18          |     |
| Timperley                  | 24              | 236         | 46        | 48                                       | 1           |     |
| *Started in 1964           | Total           | 917         | 15535     | 3392                                     | 3593        | 714 |

# Midwives Clinics

| CLINIC                   | No. of Sessions | Attendances | New cases | No. of Cases who attended during year |      |
|--------------------------|-----------------|-------------|-----------|---------------------------------------|------|
| Adswood*                 | 6               | 73          | 25        | 37                                    |      |
| Altrincham*              | 10              | 36          | 12        | 36                                    |      |
| Bollington               | 47              | 283         | 57        | 66                                    |      |
| Bredbury                 | 53              | 1241        | 250       | 298                                   |      |
| Broomwood                | 9               | 16          | 9         | 11                                    |      |
| Cheadle                  | 41              | 270         | 71        | 214                                   |      |
| Crewe, Ludford Street    | 86              | 524         | 127       | 180                                   |      |
| Stalbridge Road          | 49              | 248         | 59        | 71                                    |      |
| Dukinfield               | 45              | 1000        | 182       | 254                                   |      |
| Eastham                  | 51              | 523         | 80        | 116                                   |      |
| Ellesmere Port           | 48              | 1030        | 170       | 268                                   |      |
| Frodsham                 | 8               | 96          | 19        | —                                     |      |
| Grappenhall              | 53              | 926         | 164       | 196                                   |      |
| Hale                     | 35              | 71          | 18        | 21                                    |      |
| Hazel Grove*             | 50              | 752         | 63        | 79                                    |      |
| Heald Green*             | 45              | 147         | 69        | 71                                    |      |
| Hollingworth             | 27              | 79          | 3         | 27                                    |      |
| Hoylelake                | 53              | 383         | 82        | 112                                   |      |
| Little Sutton            | 51              | 986         | 188       | 211                                   |      |
| Lymm                     | 51              | 409         | 57        | 85                                    |      |
| Macclesfield, Heyes Hall | 24              | 299         | 51        | —                                     |      |
| Hurdsfield House         | 14              | 24          | 14        | 13                                    |      |
| Sanders Square           | 22              | 286         | 65        | 85                                    |      |
| Marple                   | 49              | 814         | 198       | 267                                   |      |
| New Ferry*               | 42              | 347         | 77        | 77                                    |      |
| Nantwich                 | 53              | 85          | 21        | 29                                    |      |
| Neston                   | 20              | 203         | 25        | 29                                    |      |
| Northwich (Parkfield)    | 48              | 65          | 21        | 25                                    |      |
| Poynton                  | 48              | 1486        | 176       | 173                                   |      |
| Runcorn                  | 50              | 353         | 128       | 132                                   |      |
| Sale (Meadway)           | 45              | 260         | 51        | 91                                    |      |
| Sale (Bodmin Road)*      | 6               | 62          | 14        | 28                                    |      |
| Sandbach                 | 47              | 250         | 50        | 60                                    |      |
| Stalybridge (Millbrook)  | 43              | 297         | 58        | 39                                    |      |
| Stockton Heath           | 50              | 318         | 61        | 86                                    |      |
| Upton*                   | 12              | 52          | 2         | 2                                     |      |
| Weaverham                | 51              | 239         | 23        | 32                                    |      |
| Winsford                 | 52              | 210         | 77        | 47                                    |      |
| * Started in 1964        | Totals          | 1482        | 14688     | 2764                                  | 3556 |

## 7. MENTAL HEALTH OF MOTHERS AND YOUNG CHILDREN

Expectant mothers regularly attend preparation classes; these are run largely on group discussion lines. It is found that the ventilating of personal problems before the birth of the baby is a great help to the mother-child relationship later. The talks are followed by relaxation exercises conducted by physiotherapists.

Classes were held at 33 centres, details of which are given below.

### PREPARATION CLASSES, 1964

| CLINIC                           | No. of Sessions | Attendances | New Cases |
|----------------------------------|-----------------|-------------|-----------|
| Alsager                          | 50              | 444         | 66        |
| Cheadle                          | 53              | 882         | 140       |
| Crewe                            | 51              | 2210        | 250       |
| Dukinfield                       | 48              | 1289        | 156       |
| Eastham                          | 53              | 759         | 94        |
| Ellesmere Port                   | 47              | 945         | 154       |
| Frodsham*                        | 7               | 68          | 17        |
| Grappenhall                      | 51              | 531         | 51        |
| Handforth                        | 53              | 1049        | 141       |
| Hazel Grove                      | 52              | 763         | 137       |
| Heswall                          | 48              | 1443        | 170       |
| Hoylake                          | 46              | 1335        | 173       |
| Hyde                             | 49              | 1230        | 162       |
| Heald Green*                     | 42              | 532         | 86        |
| Little Sutton                    | 51              | 531         | 80        |
| Macclesfield Hurdsfield House    | 51              | 987         | 140       |
| Sanders Square                   | 23              | 106         | 30        |
| Marple                           | 47              | 639         | 113       |
| Nantwich                         | 48              | 887         | 95        |
| Neston                           | 47              | 981         | 140       |
| New Ferry                        | 46              | 817         | 119       |
| Northwich                        | 45              | 582         | 96        |
| Partington                       | 48              | 255         | 39        |
| Poynton                          | 48              | 827         | 103       |
| Romiley                          | 49              | 874         | 124       |
| Runcorn                          | 50              | 847         | 150       |
| Sale                             | 50              | 339         | 52        |
| Sandbach                         | 50              | 720         | 81        |
| Stalybridge                      | 46              | 155         | 15        |
| Stockton Heath (Ceased 28.10.64) | 43              | 250         | 43        |
| Timperley                        | 36              | 101         | 21        |
| Weaverham                        | 49              | 327         | 47        |
| Winsford                         | 52              | 359         | 58        |
| *Started in 1964      Totals     | 1529            | 24054       | 3343      |

## 8. CHILD WELFARE CENTRES

The following Tables give particulars, as in previous years, of the sessions and attendances at Child Welfare Centres throughout the County during 1964:—

| Centre                            | Frequency          | Day                                 | No. of Sessions | No. Present | No. seen by Dr. | Average Att. |
|-----------------------------------|--------------------|-------------------------------------|-----------------|-------------|-----------------|--------------|
| Adswood —                         | Fortnightly        | 2nd and 4th Monday                  | 28              | 858         | 375             | 31           |
| Alderley Edge                     | Weekly             | Friday                              | 50              | 1000        | 692             | 20           |
| Alsager —                         | Twice weekly       | Tuesday a.m. and p.m.               | 98              | 4441        | 984             | 45           |
| Altrincham —<br>(The Mount)       | Twice weekly       | Monday & Wednesday                  | 101             | 3849        | 1006            | 38           |
| Altrincham —<br>(Broomwood)       | Weekly             | Monday                              | 48              | 1038        | 301             | 22           |
| Altrincham —<br>(Timperley)       | Three times weekly | Tuesday a.m. & p.m. & Thursday p.m. | 138             | 5210        | 1306            | 38           |
| Audlem —                          | Fortnightly        | 1st and 3rd Tuesday                 | 24              | 838         | 293             | 39           |
| Barnton —                         | Fortnightly        | 2nd and 4th Wednesday               | 24              | 1223        | 113             | 51           |
| Barrow —                          | Fortnightly        | 1st and 3rd Wednesday               | 24              | 514         | 120             | 21           |
| Bebington —<br>(New Ferry)        | Weekly             | Wednesday                           | 52              | 2008        | 526             | 39           |
| Bebington —<br>(Bromboro')        | Weekly             | Thursday                            | 51              | 1918        | 497             | 38           |
| Bebington —<br>(Eastham)          | Weekly             | Monday                              | 48              | 1970        | 493             | 41           |
| Bebington —<br>(Thornton Hough)   | Fortnightly        | 1st and 3rd Friday                  | 24              | 250         | 100             | 10           |
| Bebington —<br>(Higher Bebington) | Weekly             | Tuesday                             | 51              | 2019        | 728             | 40           |
| Bebington —<br>(Mayer Hall)       | Weekly             | Friday                              | 50              | 1212        | 288             | 24           |
| Bollington —                      | Fortnightly        | 2nd and 4th Thursday                | 22              | 1666        | 328             | 76           |
| Bowdon —                          | Fortnightly        | 2nd and 4th Thursday                | 23              | 665         | 251             | 29           |
| Bramhall —<br>(Bramhall Lane)     | Fortnightly        | 1st and 3rd Monday                  | 22              | 1508        | 237             | 69           |
| Bramhall —<br>(Bridge Lane)       | Fortnightly        | 2nd and 4th Friday                  | 21              | 820         | 275             | 39           |
| Bredbury —                        | Weekly             | Tuesday                             | 52              | 2383        | 536             | 46           |
| Broadbottom                       | Fortnightly        | 1st and 3rd Wednesday               | 24              | 712         | 205             | 30           |
| Bunbury —                         | Fortnightly        | 1st and 3rd Friday                  | 24              | 302         | 105             | 13           |
| Cheadle —                         | Weekly             | Tuesday                             | 51              | 2647        | 790             | 52           |
| Cheadle Hulme                     | Weekly             | Tuesdays                            | 51              | 2795        | 629             | 55           |

CHILD WELFARE CENTRES, 1964—*Contd.*

| Centre                         | Frequency    | Day                                | No. of Sessions | No. Present | No. seen by Dr. | Average Att. |
|--------------------------------|--------------|------------------------------------|-----------------|-------------|-----------------|--------------|
| Cheadle Road                   | Fortnightly  | 2nd and 4th Monday                 | 24              | 1437        | 395             | 60           |
| Christleton                    | Fortnightly  | 1st and 3rd Thursday               | 24              | 811         | 163             | 34           |
| Comberbach                     | Fortnightly  | 1st and 3rd Wednesday              | 24              | 794         | 115             | 33           |
| Congleton                      | Weekly       | Monday                             | 48              | 4152        | 450             | 87           |
| Crewe (Ludford St.)            | Twice weekly | Thursday a.m. & p.m.               | 104             | 4263        | 898             | 42           |
| Crewe (Minshall New Road)      | Fortnightly  | 1st, 3rd and 5th Monday            | 28              | 478         | 191             | 17           |
| Crewe (Stalbr'ge Rd.)          | Twice weekly | Monday and Wednesday               | 99              | 3822        | 993             | 39           |
| Davenham                       | Fortnightly  | 1st and 3rd Monday                 | 22              | 884         | 80              | 40           |
| Disley                         | Fortnightly  | 1st and 3rd Tuesday                | 24              | 991         | 211             | 41           |
| Dukinfield                     | Twice weekly | Wednesday & Thursday               | 99              | 3730        | 956             | 38           |
| Ellesmere Port (Stanney Lane)  | Twice weekly | Tues. & Fri.                       | 102             | 5658        | 1196            | 55           |
| Ellesmere Port (Little Sutton) | Weekly       | Monday                             | 48              | 2397        | 533             | 50           |
| Ellesmere Port (Overpool)      | Fortnightly  | 1st and 3rd Thursday               | 23              | 316         | 72              | 14           |
| Ellesmere Port (Westminster)   | Fortnightly  | 1st and 3rd Wednesday              | 18              | 431         | 279             | 24           |
| Farndon                        | Fortnightly  | 1st and 3rd Tuesday                | 24              | 400         | 78              | 17           |
| Frodsham                       | Fortnightly  | Alternate Tuesdays                 | 26              | 942         | 438             | 36           |
| Gatley                         | Weekly       | Thursday                           | 52              | 2076        | 609             | 40           |
| Goostrey                       | Fortnightly  | 1st and 3rd Tuesday                | 24              | 878         | 354             | 37           |
| Grappenhall                    | Weekly       | Tuesday                            | 50              | 2885        | 752             | 58           |
| Greasby                        | Weekly       | Tuesday                            | 51              | 1640        | 325             | 32           |
| Great Boughton                 | Fortnightly  | 2nd and 4th Tuesday                | 29              | 1252        | 346             | 43           |
| Hale                           | Weekly       | Wednesday                          | 51              | 2102        | 338             | 41           |
| Hale Barns                     | Fortnightly  | 1st and 3rd Thursday (a.m. & p.m.) | 48              | 1766        | 311             | 37           |
| Handforth                      | Fortnightly  | 2nd & 4th Monday                   | 42              | 1765        | 550             | 42           |
| Hartford                       | Fortnightly  | 2nd & 4th Tuesday                  | 24              | 558         | 67              | 23           |
| Haslington                     | Fortnightly  | 1st and 3rd Tuesday                | 24              | 876         | 145             | 27           |
| Hattersley                     | Weekly       | Thursday                           | 16              | 403         | 74              | 25           |
| Hazel Grove                    | Weekly       | Tuesday                            | 52              | 2640        | 447             | 51           |
| Heald Green                    | Weekly       | Thursday                           | 52              | 4238        | 1178            | 82           |
| Heatley                        | Fortnightly  | 1st & 3rd Wednesday                | 23              | 552         | 274             | 24           |
| Helsby                         | Fortnightly  | Alternate Tuesdays                 | 26              | 1125        | 420             | 43           |

CHILD WELFARE CENTRES, 1964—*Contd.*

| Centre                               | Frequency    | Day                     | No. of Sessions | No. Present | No. seen by Dr. | Average Att. |
|--------------------------------------|--------------|-------------------------|-----------------|-------------|-----------------|--------------|
| Heswall —                            | Weekly       | Monday                  | 48              | 2341        | 765             | 49           |
| High Lane —                          | Fortnightly  | 2nd and 4th Tuesday     | 24              | 1454        | 293             | 61           |
| Hollingworth                         | Fortnightly  | 1st and 3rd Thursday    | 24              | 1158        | 196             | 48           |
| Holmes Chapel                        | Fortnightly  | 2nd and 4th Tuesday     | 24              | 853         | 425             | 36           |
| Hoylake —                            | Weekly       | Thursday                | 52              | 2061        | 391             | 40           |
| Huntington —                         | Fortnightly  | 2nd and 4th Wednesday   | 24              | 518         | 247             | 22           |
| Hyde —<br>(Bayley Hall)              | Twice weekly | Mon. & Fri.             | 101             | 3702        | 905             | 37           |
| Hyde —<br>(Gee Cross)                | Weekly       | Monday                  | 26              | 1518        | 197             | 58           |
| Hyde —<br>(Parsonage St.)            | Twice weekly | Wed. & Thurs.           | 73              | 4894        | 538             | 67           |
| Irby —                               | Fortnightly  | 1st & 3rd Wednesday     | 23              | 664         | 123             | 29           |
| Kelsall —                            | Fortnightly  | 1st and 3rd Tuesday     | 24              | 582         | 192             | 24           |
| Kingsley —                           | Fortnightly  | 2nd & 4th Wednesday     | 24              | 416         | 113             | 17           |
| Knutsford —                          | Weekly       | Wednesday               | 51              | 3141        | 932             | 62           |
| Lacey Green —                        | Fortnightly  | 1st and 3rd Monday      | 23              | 714         | 273             | 31           |
| Leftwich —                           | Fortnightly  | 2nd and 4th Tuesday     | 24              | 785         | 169             | 33           |
| Lostock                              | Fortnightly  | 2nd and 4th Wednesday   | 24              | 664         | 164             | 28           |
| Gralam                               |              |                         |                 |             |                 |              |
| Lower Peover                         | Monthly      | 2nd Monday              | 12              | 291         | 113             | 24           |
| Lymm —                               | Weekly       | Tuesday                 | 52              | 1948        | 551             | 37           |
| Macclesfield —<br>(Bridge St.)       | Twice weekly | Monday & Thursday       | 98              | 5309        | 704             | 54           |
| Macclesfield —<br>(Heyes Hall)       | Weekly       | Friday                  | 50              | 2890        | 542             | 58           |
| Macclesfield —<br>(Hurstfield House) | Weekly       | Thursday                | 52              | 2228        | 484             | 43           |
| Macclesfield —<br>(Sanders Sq.)      | Weekly       | Friday                  | 50              | 2121        | 485             | 42           |
| Malpas —                             | Fortnightly  | 1st, 3rd and 5th Monday | 25              | 652         | 225             | 26           |
| Marple —                             | Weekly       | Wednesday               | 52              | 3498        | 939             | 67           |
| Marple Bridge                        | Fortnightly  | 2nd and 4th Thursday    | 24              | 650         | 180             | 27           |
| Mellor —                             | Fortnightly  | 1st and 3rd Thursday    | 24              | 565         | 235             | 24           |
| Middlewich —                         | Weekly       | Monday                  | 48              | 1897        | 400             | 40           |
| Mobberley —                          | Fortnightly  | Alternate Tuesdays      | 26              | 400         | 301             | 15           |
| Moulton —                            | Monthly      | 3rd Wed.                | 17              | 330         | 45              | 19           |
| Mow Cop —                            | Fortnightly  | 1st and 3rd Wednesday   | 24              | 230         | 99              | 10           |
| Nantwich —                           | Weekly       | Thursday                | 52              | 2708        | 741             | 52           |
| Neston —                             | Weekly       | Thursday                | 51              | 4827        | 572             | 95           |

CHILD WELFARE CENTRES, 1964—*Contd.*

| Centre                      | Frequency    | Day                   | No. of Sessions | No. Present | No. seen by Dr. | Average Att. |
|-----------------------------|--------------|-----------------------|-----------------|-------------|-----------------|--------------|
| Newton (West Kirby)         | Fortnightly  | 2nd & 4th Wednesday   | 24              | 1174        | 276             | 49           |
| Northwich — (Darland House) | Weekly       | Tuesday               | 51              | 1996        | 203             | 39           |
| Northwich — (Parkfield)     | Weekly       | Thursday              | 52              | 3614        | 454             | 70           |
| Over Peover —               | Fortnightly  | 1st and 3rd Monday    | 22              | 317         | 127             | 14           |
| Partington —                | Twice weekly | Tuesday & Thursday    | 100             | 3734        | 485             | 37           |
| Pensby                      | Fortnightly  | 2nd and 4th Tuesday   | 28              | 1952        | 380             | 70           |
| Plumley —                   | Fortnightly  | 1st and 3rd Thursday  | 23              | 471         | 128             | 20           |
| Poynton —                   | Weekly       | Thursday              | 51              | 5713        | 535             | 112          |
| Prestbury (at Bollington)   | Fortnightly  | 1st and 3rd Wednesday | 24              | 753         | 158             | 31           |
| Rainow (at Bollington)      | Fortnightly  | 1st and 3rd Wednesday |                 |             |                 |              |
| Rode Heath —                | Fortnightly  | 2nd and 4th Monday    | 23              | 624         | 253             | 28           |
| Romiley —                   | Twice weekly | Wed. & Thursday       | 51              | 2631        | 519             | 52           |
| Runcorn (Grange)            | Fortnightly  | 2nd and 4th Thursday  | 24              | 705         | 437             | 29           |
| Runcorn — (Halton Road)     | Twice weekly | Wednesday a.m. & p.m. | 102             | 2876        | 1104            | 28           |
| Runcorn (Weston Point)      | Fortnightly  | 1st and 3rd Thursday  | 23              | 558         | 279             | 24           |
| Sale (Bodmin Road)          | Weekly       | Friday                | 50              | 3144        | 605             | 63           |
| Sale (Chapel Road)          | Twice weekly | Tuesday & Thursday    | 104             | 5913        | 852             | 57           |
| Sale (Meadway)              | Weekly       | Tuesday               | 50              | 3228        | 815             | 65           |
| Sale Moor —                 | Weekly       | Thursday              | 51              | 2987        | 687             | 59           |
| Sandbach —                  | Twice Weekly | Tuesday a.m. & pm.    | 102             | 3895        | 536             | 38           |
| Sandiway —                  | Fortnightly  | 1st and 3rd Tuesday   | 24              | 829         | 131             | 35           |
| Saughall —                  | Fortnightly  | 1st and 3rd Monday    | 23              | 574         | 238             | 25           |
| Scholar Green               | Fortnightly  | 2nd and 4th Wednesday | 24              | 686         | 228             | 29           |
| Shavington —                | Fortnightly  | 2nd and 4th Tuesday   | 24              | 1157        | 209             | 48           |
| Stalybridge —               | Twice weekly | Tuesday & Wednesday   | 98              | 2854        | 737             | 29           |
| Stalybridge — (Millbrook)   | Weekly       | Monday                | 47              | 1128        | 368             | 24           |
| Stockton Heath              | Weekly       | Monday                | 48              | 1594        | 487             | 33           |
| Sutton (at Sanders Square)  | Fortnightly  | 1st and 3rd Thursday  | 22              | 211         | 61              | 10           |
| Tarporley —                 | Fortnightly  | 2nd and 4th Thursday  | 23              | 707         | 201             | 31           |

CHILD WELFARE CENTRES, 1964—*Contd.*

| Centre                | Frequency   | Day                   | No. of Sessions | No. Present | No. seen by Dr. | Average Att. |
|-----------------------|-------------|-----------------------|-----------------|-------------|-----------------|--------------|
| Tarvin                | Fortnightly | 2nd and 4th Wednesday | 23              | 744         | 261             | 32           |
| Tattenhall            | Fortnightly | 1st & 3rd Monday      | 24              | 308         | 100             | 13           |
| Tintwistle            | Fortnightly | 2nd and 4th Thursday  | 23              | 714         | 103             | 31           |
| Upton                 | Weekly      | Thursday              | 52              | 1973        | 497             | 38           |
| Waverton              | Fortnightly | 2nd and 4th Tuesday   | 13              | 368         | 92              | 28           |
| Weaverham             | Weekly      | Tuesday               | 51              | 2464        | 384             | 48           |
| West Kirby            | Weekly      | Friday                | 50              | 1804        | 508             | 36           |
| Willaston (Wirral)    | Fortnightly | 1st and 3rd Friday    | 24              | 682         | 157             | 28           |
| Wilmslow              | Weekly      | Thursday              | 52              | 2214        | 859             | 43           |
| Winsford              | Weekly      | Friday                | 50              | 1722        | 555             | 37           |
| Winsford (Over)       | Fortnightly | 2nd and 4th Monday    | 11              | 305         | 105             | 28           |
| Wistaston (Willaston) | Fortnightly | 2nd and 4th Wednesday | 24              | 1120        | 140             | 47           |
| Woodley               | Fortnightly | 2nd and 4th Monday    | 21              | 1050        | 209             | 50           |
| Wrenbury              | Fortnightly | 2nd and 4th Wednesday | 23              | 535         | 189             | 23           |

## 9. INFANT FOODS

The financial arrangements involved in the supply of infant foods at Welfare Centres continued in the main to be dealt with by Divisional Medical Officers and the voluntary committees' valued help in this and other aspects of centre work was continued.

## 10. WELFARE FOODS SERVICE

At 31st December, 1964 there were, in all, 181 distribution centres in the administrative county, 111 of these being manned by voluntary personnel, and 70 by full-time or part-time paid staff, including the staffs of the local district councils where, by arrangement, points have been established on district council premises.

Supplies are received from S.P.D. Ltd. Depots at Liverpool, Manchester and Newcastle. S.P.D. Ltd. act as agents of the Ministry of Health in the matter of storage and delivery. It is usual for 4 to 5 weeks supply of Welfare Foods to be held at each distribution centre.

A total of 425,926 articles were distributed to individual beneficiaries, N.H.S. Hospitals, and day nurseries during the period 29th December, 1963 to 26th December, 1964, made up as follows:

|                       |                 |
|-----------------------|-----------------|
| National Dried Milk   | 148,659 tins    |
| Cod Liver Oil         | 15,927 bottles  |
| Vitamin A & D Tablets | 26,279 packets  |
| Orange Juice          | 235,061 bottles |

## 11. CONGENITAL MALFORMATIONS

From 1st January, 1964, arrangements were made for a return to be submitted for each child who shewed a congenital defect or malformation at birth. Outline details of each case were submitted to the Ministry of Health at the end of each month.

During the year 200 cases were so notified and special attention was given by the health visitors to ensure that every possible facility was made available.

## 12. CHILDREN AT RISK

Immediately it is known that a child is more at risk than others of developing a handicap because of unfavourable family history, adverse pre-natal, perinatal or post-natal influences, details are recorded in a standard form and the child's name is added to the "At Risk" register. A special watch is kept on the child's progress and much of the Assistant County Medical Officer's time is taken up with these children at the Young Children's Clinics.

At the end of 1964 the names of 4,750 children were on the "At Risk" register.

## 13. YOUNG CHILDREN'S CLINICS

Young Children's Clinics were held in 51 centres, primarily for ensuring the proper supervision of handicapped children. At the same time Assistant County Medical Officers specially interested in early behaviour problems, can hear of the mothers' difficulties. The very fact of discussing them often indicates to the mother what course she should take. If it should be necessary, the general practitioner's agreement is obtained to refer a case to the Child Guidance Service. Psychiatrists in the Liverpool Region have been most helpful in meeting health visitors and discussing problems with them. Details of the attendances at these clinics in 1964 are given below.

# YOUNG CHILDREN'S CLINICS, 1964

| Centre           | No. of Sessions | No. Present | No. seen by Doctor | Average Att. |
|------------------|-----------------|-------------|--------------------|--------------|
| ADSWOOD*         | 3               | 17          | 17                 | 6            |
| ALTRINCHAM       | 10              | 113         | 101                | 11           |
| BEBINGTON        | 10              | 132         | 132                | 13           |
| BREDBURY         | 11              | 83          | 77                 | 7            |
| BROMBOROUGH      | 12              | 195         | 195                | 16           |
| BROOMWOOD        | 11              | 149         | 149                | 14           |
| CHEADLE          | 14              | 72          | 72                 | 5            |
| CHEADLE HULME    | 8               | 47          | 39                 | 6            |
| CONGLETON        | 11              | 101         | 101                | 9            |
| CREWE            |                 |             |                    |              |
| Ludford Street   | 11              | 93          | 93                 | 8            |
| Stalbridge Road  | 12              | 113         | 113                | 9            |
| DUKINFIELD       | 12              | 143         | 86                 | 12           |
| EASTHAM          | 12              | 207         | 207                | 17           |
| ELLESMERE PORT   | 12              | 123         | 106                | 10           |
| FRODSHAM*        | 6               | 53          | 53                 | 9            |
| GATLEY           | 7               | 55          | 55                 | 8            |
| GRAPPENHALL      | 10              | 89          | 89                 | 9            |
| HALE             | 14              | 139         | 131                | 9            |
| HANDFORTH        | 10              | 76          | 76                 | 8            |
| HAZEL GROVE      | 12              | 159         | 159                | 13           |
| HEALD GREEN      | 9               | 60          | 60                 | 7            |
| HESWALL          | 26              | 168         | 149                | 7            |
| HOYLAKE          | 12              | 97          | 89                 | 8            |
| KNUTSFORD        | 10              | 82          | 82                 | 8            |
| LITTLE SUTTON    | 10              | 110         | 110                | 11           |
| LYMM             | 22              | 246         | 246                | 11           |
| MACCLESFIELD     |                 |             |                    |              |
| Bridge Street    | 11              | 117         | 115                | 12           |
| Hurdsfield House | 11              | 108         | 102                | 10           |
| Sanders Square   | 12              | 56          | 43                 | 5            |
| MARPLE           | 11              | 62          | 62                 | 6            |
| MIDDLEWICH       | 10              | 56          | 55                 | 6            |
| NANTWICH         | 11              | 131         | 131                | 12           |
| NESTON           | 21              | 108         | 103                | 5            |
| NEW FERRY        | 12              | 85          | 85                 | 7            |
| NORTHWICH        |                 |             |                    |              |
| Darland House    | 1               | 2           | 2                  | 2            |
| Parkfield        | 11              | 57          | 57                 | 5            |
| PARTINGTON       | 22              | 169         | 169                | 7            |
| PENSBY*          | 1               | 5           | 5                  | 5            |
| POYNTON          | 9               | 58          | 48                 | 6            |
| ROMILEY          | 8               | 58          | 47                 | 7            |
| RUNCORN          | 11              | 101         | 101                | 9            |
| SALE             |                 |             |                    |              |
| Chapel Road      | 6               | 63          | 63                 | 11           |
| Meadway          | 6               | 68          | 68                 | 11           |
| Bodmin Road*     | 3               | 25          | 24                 | 8            |
| SANDBACH         | 10              | 99          | 99                 | 10           |
| STALYBRIDGE      | 7               | 32          | 21                 | 4            |
| STOCKTON HEATH   | 19              | 135         | 129                | 7            |
| TIMPERLEY        | 20              | 164         | 164                | 8            |
| WEAVERHAM        | 11              | 99          | 99                 | 9            |
| WILMSLOW         | 11              | 105         | 105                | 10           |
| WINSFORD         | 10              | 120         | 120                | 12           |

\*Started in 1964

TOTALS

562

4997

4804

445

## 14. DENTAL CARE

An increase in the number of patients attending the Maternity and Child Welfare dental clinics was noticed during the year 1964. This was seen in both the expectant and nursing mother classes as well as in the pre-school children.

I believe that the new clinics built in new housing estates are attracting young, expectant mothers and mothers who are keen to take advantage of all that a modern local authority clinic has to offer.

The general picture for the country as a whole is reported in "The Annual Report of the Chief Medical Officer of the Ministry of Health for the Year 1963", from which the following interesting extract is taken:—

"The further decline in the number of mothers treated was not unexpected and need not be regretted because of the increasing use made of the general dental services. It is more satisfactory that women should be under the regular care of their own dentist, than that they should seek priority treatment periodically, as they become eligible for it, from local authority clinics. The latter can make a very useful contribution by treating mothers who are not in the habit of obtaining regular dental treatment from a private practitioner".

The views expressed in this paragraph are those which have been held by this Authority for some years.

The report also quotes the fact that the demand for priority treatment is higher in the south of England than in the north of England, the Midlands and in Wales.

The number of pre-school children inspected during the year showed an increase on previous years, but the number treated was the same as in 1963. It is interesting to note that the ratio of fillings to extractions shows a rising tendency.

There is much to be done in encouraging parents to bring their children for a dental inspection as soon as their teeth begin to erupt. National figures show that about one child in four between the ages of 3 and 4 years has a full set of teeth which are free from decay or fillings. About 4 or 5 teeth per child are affected by decay and it is disturbing to read that one child in ten has as many as 10 or more defective teeth.

Tooth decay is often seen in the mouths of two-year old children and, since most of this decay is caused by too many sweets and too much refined carbohydrates, it is obvious that much of the dental health propaganda is at present ineffective.

There is a growing interest being shown by parents in dental health and it is hoped that the slight improvement shown in the year, when more mothers have asked for appointments for dental inspections for their pre-school children before being driven to seek treatment because of toothache, will continue.

The following details show the work done during the year 1964:—

|                                                 | Expectant and<br>Nursing Mothers | Children<br>under<br>5 years |
|-------------------------------------------------|----------------------------------|------------------------------|
| (a) <i>Numbers provided with Dental Care</i>    |                                  |                              |
| Examined .....                                  | 570                              | 1370                         |
| Started Treatment .....                         | 541                              | 1053                         |
| Courses of Treatment completed .....            | 579                              | 1209                         |
| (b) <i>Forms of Dental Treatment Provided</i>   |                                  |                              |
| Extractions .....                               | 1193                             | 1273                         |
| Fillings .....                                  | 540                              | 754                          |
| Anaesthetics —General .....                     | 189                              | 517                          |
| Partial Upper or Lower Dentures<br>fitted ..... | 67                               | —                            |
| Full Upper or Lower Dentures<br>fitted .....    | 121                              | —                            |
| Scalings or Scaling and Gum<br>Treatment .....  | 184                              | 29                           |
| Silver Nitrate Treatment .....                  | 6                                | 179                          |
| Radiographs .....                               | 34                               | 3                            |

Number of Sessions spent on M.C.W. work ..... 358

## 15. CARE OF UNMARRIED MOTHERS

Arrangements have continued whereby unmarried expectant mothers are admitted to voluntary institutions some time before the confinement, and return there with the baby for varying periods afterwards. The County Council's own Home at 7, Trinity Road, Hoylake, provides 12 beds and 8 cots, and 49 Cheshire women were admitted during the year, staying approximately eight weeks before the birth and six weeks afterwards. Responsibility was accepted at other homes and hostels for 72 such mothers during the year.

## 16. DAY NURSERIES

Details of the 13 Day Nurseries now maintained by the County Council are given on page 62. The following table gives the number of places available and the attendances of children at each nursery in 1964.

| Nursery              | Approved number<br>of places 31/12/64 |     | Per-<br>mitted<br>number | Number of<br>children on<br>Register 31/12/64 |     | Average daily<br>attendance<br>1964 |       |
|----------------------|---------------------------------------|-----|--------------------------|-----------------------------------------------|-----|-------------------------------------|-------|
|                      | 0—2                                   | 2—5 |                          | 0—2                                           | 2—5 | 0—2                                 | 2—5   |
| Cham .....           | 15                                    | 17  | 30                       | 9                                             | 23  | 6.5                                 | 20.0  |
| ington (T) .....     | 16                                    | 24  | 30                       | 8                                             | 24  | 8.0                                 | 21.75 |
| bury .....           | 25                                    | 25  | 30                       | 9                                             | 30  | 7.25                                | 19.5  |
| borough .....        | 20                                    | 25  | 30                       | 10                                            | 16  | 6.0                                 | 19.0  |
| leton .....          | 16                                    | 32  | 48                       | 10                                            | 45  | 10.25                               | 32.25 |
| nfield .....         | 16                                    | 24  | 35                       | 13                                            | 27  | 9.5                                 | 20.75 |
| nere Port (T) .....  | 20                                    | 30  | 50                       | 22                                            | 37  | 17.5                                | 25.25 |
| l Grove .....        | 16                                    | 24  | 35                       | 18                                            | 30  | 9.75                                | 22.5  |
| lesfield—            |                                       |     |                          |                                               |     |                                     |       |
| egg Street (T) ..... | 10                                    | 30  | 40                       | 7                                             | 38  | 7.75                                | 30.5  |
| rdsfield (T) .....   | 25                                    | 25  | 40                       | 13                                            | 32  | 8.75                                | 27.0  |
| uth Park (T) .....   | 18                                    | 30  | 40                       | 13                                            | 31  | 10.5                                | 22.5  |
| orn (T) .....        | 16                                    | 24  | 35                       | 12                                            | 33  | 9.75                                | 24.75 |
| T) .....             | 20                                    | 31  | 30                       | 6                                             | 34  | 4.75                                | 25.0  |
| Total .....          | 233                                   | 341 | 473                      | 150                                           | 400 | 116                                 | 310   |

T—indicates a nursery approved for training purposes.

## 17. NURSERIES AND DAILY MINDERS

The County Health Department is responsible for the inspection and registration of premises under the Nurseries and Child-Minders Regulation Act, 1948, and the position on 31st December, 1964, was as follows:—

| Premises                    | Number<br>Registered | Number of Children<br>provided for |
|-----------------------------|----------------------|------------------------------------|
| (a) Factory Nurseries ..... | 1                    | 56                                 |
| (b) Other Nurseries .....   | 30                   | 598                                |
|                             | <hr/>                | <hr/>                              |
|                             | 31                   | 654                                |
| Daily Minders .....         | 51                   | 624                                |

## 18. NURSING AND MATERNITY HOMES

The County Council is the registration Authority for private Nursing and Maternity Homes under Sections 187 to 194 of the Public Health Act, 1936, for the whole County, and the following details show the position for the year ended 31st December, 1964:—

|                                                          | Number<br>of<br>Homes | Number of beds provided for:— |        |       |
|----------------------------------------------------------|-----------------------|-------------------------------|--------|-------|
|                                                          |                       | Maternity                     | Others | Total |
| Homes first registered during year                       | —                     | —                             | —      | —     |
| Homes whose registrations were withdrawn during the year | 1                     | —                             | 8      | 8     |
| Homes on the register at end of year                     | 14                    | 2                             | 608    | 610   |

## 19. ARTIFICIAL SUNLIGHT TREATMENT

During the year 1964, the attendances by children under 5 at the sunlight clinics listed below were as follows:—

|            |     |            |     |
|------------|-----|------------|-----|
| Dukinfield | 389 | Sale       | 317 |
| Hyde       | 603 | Salybridge | 700 |
| New Ferry  | 119 |            |     |

## 20. ORTHOPAEDIC SCHEME

The specialist orthopaedic sessions held at county clinic premises are conducted by the Regional Hospital Boards, in the same way as those held at hospital premises, and suitable financial arrangements were made for the few clinics where physiotherapy was only partly under specialist supervision.

The following shews the attendances made during 1964 at such clinics (excluding those for sunlight only) by children under 5:—

|                |     |            |      |
|----------------|-----|------------|------|
| Dukinfield     | 600 | Hyde       | 388  |
| Ellesmere Port | 122 | Salybridge | 1080 |

## 21. THALIDOMIDE

Surveillance of the progress of those babies born alive between 1/1/60 and 31/8/62, with congenital abnormalities due or possibly due to the drug Thalidomide, has continued. It seems possible that the majority of them may be educable in the ordinary school.

## 22. PHENYLKETONURIA

Health Visitors throughout the County have continued to apply the simple test required for the detection of this condition, carrying this out between the 10th and 14th day of life, with a repeat test between the 4th and 6th week of life. If the condition is not detected at an early stage, an excessive accumulation of phenylalanine occurs in the blood, which retards brain development. The frequency of incidence of this condition in the population is still estimated to be 1 in 50,000.

The Medical Research Council, under Professor Moncrieff, has set up a Working Party, to investigate the results of treatment by dietary control in greater detail. The County has been asked and has agreed to co-operate in this research investigation, where parents are willing and give consent.

During 1964 one child in Cheshire was reported as positive to the test at the 11th day, the very early stage thought necessary for the optimum response to treatment.

## 23. CHILD GUIDANCE

At the end of 1964 there were seven child guidance clinics equipped and staffed for diagnosis and treatment to which children under five years of age could be referred. These were at Ellesmere Port, Grappenhall, Handforth, Hazel Grove, Sale, Sandbach and Stalybridge. A further four clinics at Congleton, Macclesfield, Northwich and Wilmslow were used for preliminary investigations and feeding the main clinics.

## 24. CEREBRAL PALSY

The cerebral palsy peripatetic team of a physiotherapist and an occupational therapist continues to operate at clinic centres at Cheadle, Crewe, Macclesfield and Weaverham, and once a month at each clinic Dr. J. D. Allan, the Consultant Paediatrician, attends. A clinic was started at Congleton at the end of the year for children previously attending Macclesfield. The team works in close contact with the appropriate speech therapist and has the services of a medical officer specially trained in the ascertainment of intelligence in physically handicapped children. Children usually attend the clinics for treatment once or twice each week. Twice each year a special meeting is held of all officers concerned to review all cases attending the clinics.

The table below gives details of the children attending the clinics during 1964:—

#### CEREBRAL PALSY CLINICS

|                                                   | Cheadle | Crewe | Macclesfield | Weaver-ham | Congle-son |
|---------------------------------------------------|---------|-------|--------------|------------|------------|
| Number of children:                               |         |       |              |            |            |
| (a) Attending at the end of the year              | 20      | 19    | 12           | 21         | 3          |
| (b) Under 5 years of age .....                    | 10      | 4     | 7            | 13         | 1          |
| (c) Unsuitable for education .....                | 2       | 8     | 4            | 5          | —          |
| (d) Improved sufficiently to:                     |         |       |              |            |            |
| (i) attend school .....                           | 2       | —     | —            | 1          | —          |
| (ii) have home tuition .....                      | —       | —     | —            | —          | —          |
| (e) Already at school .....                       | 6       | 7     | 4            | 3          | 2          |
| (f) Already receiving home tuition                | —       | —     | 2            | 4          | —          |
| (g) Who were admitted to clinic during year ..... | —       | —     | —            | —          | 3          |
| (h) Transferred to other centres                  | —       | 1     | 3            | —          | —          |
| (i) Who ceased attendance .....                   | 1       | 3     | 1            | 2          | —          |
| (j) Fit for discharge .....                       | 2       | —     | —            | —          | —          |
| (k) Discharged as unsuitable .....                | —       | —     | —            | —          | —          |

#### 25. HEARING AND SPEECH

The policy of the County of screening all children for hearing at nine months of age has been continued, and early cases of deafness have been found that might otherwise not have been detected until much later in childhood. Together with this early screening, encouragement has been given to mothers to bring their children again at two years and four years for further checks, not only to try and find those cases of deafness that develop later in infancy, but also those cases of delayed speech development which often may be due to impaired hearing either peripheral or central in origin. Regular screening clinics continue to be held at more than 70 centres, and all the Health Visiting Staff have received training in the technique, except for those who have recently entered the Service.

Some 10,411 children attended these centres this year, and 696 failed to respond normally to sound. These were re-tested, and those found to require fuller assessment were referred to the Assistant County Medical Officers. Where the hearing impairment shows evidence of a conductive origin, referral is made to the appropriate consultant otologist for treatment, with the consent of the family doctor. Re-examination is carried out after treatment by the Assistant Medical Officer.

On many occasions expert help is required to establish a diagnosis or to decide on the type and quality of help the child needs, and consultant opinion is sought at the eight Audiology Centres which are held throughout the County, at three monthly intervals, or more frequently if the

need arises. Prof. I. G. Taylor (Department of Audiology, Manchester University) and Sir Alexander Ewing attend these clinics, together with a consultant otologist, thus helping to establish a diagnosis quickly and to ensure speedy remedial measures. The Medical Officers, Health Visitors and Peripatetic Teachers of the Deaf who attend are able to contribute and participate in the assessment of the child, and to be aware of the advice and guidance given to the parents of the deaf child.

Auditory training is carried out by the parents initially, in the home situation, with the guidance of one of those health visitors who have received appropriate training. In cases of severe loss, an individual hearing aid (supplied through the National Health Service) is usually worn for increasing periods in the home, and supplemented by short periods of listening through a speech training hearing aid. Such an aid provides high-fidelity amplification to both ears, giving a more accurate version of speech than the small wearable aid, and a number of these aids is available to parents of young children, for daily use in the home. This is supervised by the peripatetic teachers of the deaf, who also use these aids at their regular clinic sessions.

Where the need arises, arrangements are made for the young severely deaf child to attend at an early age at a special school, either as a weekly boarder or as a day pupil. In some severely deaf cases the individual hearing aid supplied through the National Health Service has been found to give insufficiently accurate amplification for the child's needs, and the County has, in these special cases (on recommendation by a Consultant Audiologist or Otologist) provided the child on loan with the special aid required.

The partially hearing child in the ordinary school needs extra help and guidance, as does the school, and here the work of the Peripatetic Teachers of the Deaf, together with that of the Medical Officers, is invaluable. The numbers of children found every year to be requiring help and supervision continues to grow, as methods of ascertainment become more widespread and skilled.

AUDIOLOGY CLINICS—1964

| CENTRE               | New Cases  |           |           | Attendances |           |            |
|----------------------|------------|-----------|-----------|-------------|-----------|------------|
|                      | Pre-School | School    | Total     | Pre-School  | School    | Total      |
| Cheadle .....        | 4          | 5         | 9         | 5           | 11        | 16         |
| Chester .....        | 3          | 2         | 5         | 4           | 2         | 6          |
| Crewe .....          | 1          | 2         | 3         | 14          | 14        | 28         |
| Ellesmere Port ..... | 7          | 5         | 12        | 17          | 9         | 26         |
| Hale .....           | 4          | 6         | 10        | 17          | 8         | 25         |
| Hoole .....          | 8          | 2         | 10        | 14          | 4         | 18         |
| Macclesfield .....   | 12         | 10        | 22        | 13          | 18        | 31         |
| Romiley .....        | 2          | 3         | 5         | 4           | 7         | 11         |
| <b>TOTAL</b> .....   | <b>41</b>  | <b>35</b> | <b>76</b> | <b>88</b>   | <b>73</b> | <b>161</b> |

# SCREENING CLINICS—1964

| CENTRE                         | New Cases | Re-tests | Total Attds. | Passed | Failed | No. of Sessions |
|--------------------------------|-----------|----------|--------------|--------|--------|-----------------|
| Adswood .....                  | 84        | 1        | 85           | 82     | 3      | 10              |
| Alsager .....                  | 234       | 67       | 301          | 287    | 14     | 23              |
| Altrincham .....               | 151       | 3        | 154          | 153    | 1      | 17              |
| Barnton .....                  | 57        | 3        | 60           | 58     | 2      | 11              |
| Bebington,<br>Mayer Hall ..... | 111       | 2        | 113          | 105    | 8      | 10              |
| Bramhali .....                 | 90        | 2        | 92           | 88     | 4      | 10              |
| Bollington .....               | 53        | 2        | 55           | 49     | 6      | 11              |
| Bredbury .....                 | 130       | 2        | 132          | 130    | 2      | 11              |
| Bromborough .....              | 154       | 6        | 160          | 153    | 7      | 11              |
| Broomwood .....                | 70        | 11       | 81           | 73     | 8      | 9               |
| Cheadle .....                  | 158       | 2        | 160          | 154    | 6      | 21              |
| Cheadle Hulme .....            | 64        | —        | 64           | 62     | 2      | 7               |
| Comberbach .....               | 25        | —        | 25           | 25     | —      | 5               |
| Congleton .....                | 206       | 8        | 214          | 189    | 25     | 32              |
| Crewe—                         |           |          |              |        |        |                 |
| Ludford Street .....           | 299       | 5        | 304          | 301    | 3      | 21              |
| Stalbridge Road .....          | 156       | 8        | 164          | 156    | 8      | 23              |
| Dukinfield .....               | 170       | 10       | 180          | 166    | 14     | 20              |
| Eastham .....                  | 236       | 10       | 246          | 230    | 16     | 23              |
| Ellesmere Port .....           | 328       | 32       | 360          | 320    | 40     | 34              |
| Frodsham .....                 | 65        | 10       | 75           | 67     | 8      | 10              |
| Gatley .....                   | 74        | 1        | 75           | 71     | 4      | 8               |
| Grappenhall .....              | 189       | 6        | 195          | 184    | 11     | 18              |
| Greasby .....                  | 107       | 2        | 109          | 109    | —      | 10              |
| Hale .....                     | 180       | 28       | 208          | 183    | 25     | 23              |
| Hale Barns .....               | 105       | 22       | 127          | 109    | 18     | 12              |
| Handforth .....                | 132       | 12       | 144          | 131    | 13     | 15              |
| Hazel Grove .....              | 258       | 9        | 267          | 243    | 24     | 22              |
| Heald Green .....              | 312       | 20       | 332          | 288    | 44     | 32              |
| Heswall .....                  | 218       | 4        | 222          | 216    | 6      | 21              |
| Hollingworth .....             | 34        | —        | 34           | 34     | —      | 5               |
| Higher Bebington .....         | 130       | 2        | 132          | 124    | 8      | 11              |
| Hoole .....                    | 91        | 4        | 95           | 84     | 11     | 15              |
| Hoylake .....                  | 217       | 11       | 228          | 213    | 15     | 19              |
| Hyde—                          |           |          |              |        |        |                 |
| Bayley Hall .....              | 78        | 1        | 79           | 77     | 2      | 10              |
| Parsonage Street .....         | 211       | 2        | 213          | 210    | 3      | 21              |
| Knutsford .....                | 156       | 16       | 172          | 155    | 17     | 23              |
| Little Sutton .....            | 191       | 10       | 201          | 193    | 8      | 13              |
| Lymm .....                     | 147       | 1        | 148          | 142    | 6      | 18              |
| Macclesfield—                  |           |          |              |        |        |                 |
| Bridge Street .....            | 188       | 19       | 207          | 187    | 20     | 23              |
| Hurdsfield House .....         | 97        | 4        | 101          | 88     | 13     | 12              |
| Sanders Square .....           | 72        | 1        | 73           | 68     | 5      | 10              |
| Malpas .....                   | 22        | —        | 22           | 20     | 2      | 3               |
| Marple .....                   | 108       | 10       | 118          | 109    | 9      | 12              |
| Middlewich .....               | 125       | 2        | 127          | 125    | 2      | 29              |
| Nantwich .....                 | 113       | 7        | 120          | 107    | 13     | 15              |
| Neston .....                   | 220       | 6        | 226          | 215    | 11     | 22              |
| New Ferry .....                | 178       | 9        | 187          | 158    | 29     | 29              |
| Northwich .....                | 79        | 3        | 82           | 79     | 3      | 12              |
| Parkfield .....                | 90        | 4        | 94           | 88     | 6      | 12              |

SCREENING CLINICS—1964—*continued.*

| CENTRE                           | New Cases | Re-tests | Total Attds. | Passed | Failed | No. of Sessions |
|----------------------------------|-----------|----------|--------------|--------|--------|-----------------|
| Partington .....                 | 185       | 3        | 188          | 176    | 12     | 19              |
| Pensby .....                     | 107       | —        | 107          | 106    | 1      | 8               |
| Poynton .....                    | 88        | 13       | 101          | 88     | 13     | 11              |
| Romiley .....                    | 126       | 1        | 127          | 125    | 2      | 11              |
| Runcorn .....                    | 164       | 13       | 177          | 159    | 18     | 26              |
| Sale .....                       | 406       | 15       | 421          | 404    | 17     | 49              |
| Sale—                            |           |          |              |        |        |                 |
| Bodmin Road                      | 119       | 6        | 125          | 113    | 12     | 12              |
| Meadway .....                    | 238       | 16       | 254          | 240    | 14     | 21              |
| Sandbach .....                   | 15        | —        | 15           | 12     | 3      | 2               |
| Stalybridge .....                | 72        | 3        | 75           | 66     | 9      | 11              |
| Stockton Heath                   | 140       | 1        | 141          | 140    | 1      | 16              |
| Tarporley .....                  | 38        | 4        | 42           | 38     | 4      | 4               |
| Tarvin .....                     | 40        | 1        | 41           | 40     | 1      | 3               |
| Timperley .....                  | 208       | 15       | 223          | 205    | 18     | 24              |
| Weaverham .....                  | 85        | 8        | 93           | 83     | 10     | 12              |
| Willaston .....                  | 36        | 1        | 37           | 36     | 1      | 3               |
| Wilmslow .....                   | 272       | 14       | 286          | 271    | 15     | 30              |
| Winsford .....                   | 161       | 8        | 169          | 156    | 13     | 12              |
| Wistaston .....                  | 70        | —        | 70           | 65     | 5      | 8               |
|                                  | 9,532     | 522      | 10,054       | 9,381  | 742    | 1,076           |
| <i>Miscellaneous</i>             |           |          |              |        |        |                 |
| Agden, Dunham, Millington .....  | 16        | —        | 16           | 13     | 3      | 3               |
| Appleton, Grappen-hall, Stretton | 32        | —        | 32           | 32     | —      | 4               |
| Bromborough Day Nursery .....    | 7         | —        | 7            | 4      | 3      | 1               |
| District Screening, 7b. ....     | 95        | 4        | 99           | 92     | 7      | 16              |
| Disley .....                     | 6         | —        | 6            | 5      | 1      | 1               |
| Farndon .....                    | 12        | —        | 12           | 12     | —      | 2               |
| Irby .....                       | 12        | —        | 12           | 12     | —      | 1               |
| Kelsall .....                    | 37        | —        | 37           | 37     | —      | 3               |
| Lymm, Heatley, High Lane .....   | 6         | —        | 6            | 6      | —      | 1               |
| Barrow .....                     | 19        | —        | 19           | 18     | 1      | 2               |
| Hollingworth .....               | 7         | 1        | 8            | 7      | 1      | 1               |
| Marple Bridge .....              | 13        | —        | 13           | 13     | —      | 1               |
| Pallotti Hall, Siddington .....  | 14        | 2        | 16           | 12     | 4      | 1               |
| High Lane .....                  | 13        | —        | 13           | 13     | —      | 1               |
| Mellor .....                     | 8         | 1        | 9            | 9      | —      | 1               |
| Broadbottom .....                | 11        | 1        | 12           | 12     | —      | 1               |
| Great Boughton                   | 26        | 3        | 29           | 28     | 1      | 2               |
| Upton .....                      | 7         | 1        | 8            | 7      | 1      | 2               |
| Hattersley .....                 | 6         | 1        | 7            | 7      | —      | 1               |
| Totals                           | 347       | 14       | 361          | 339    | 22     | 45              |
| GRAND TOTAL                      | 9,879     | 536      | 10,415       | 9,720  | 764    | 1,121           |

## SECTION VII.-MIDWIFERY

A summary of the numbers involved is given below, further details on pp. 57-59, and general information, relating both to district nurses who practise midwifery and to those who do not, in Section X.

### (a) Number of Midwives in Practice

There were 363 midwives who notified their intention to practise in the County Area during 1964:—

|                                     |     |
|-------------------------------------|-----|
| Headquarters Staff                  | 4   |
| County Midwives                     | 74  |
| District Nurse Midwives             | 120 |
| Independent Midwives                | 11  |
| Practising in Private Nursing Homes | —   |
| Practising in Institutions          | 154 |

### (b) Inspection of Midwives

Visits paid by Non-Medical Supervisors of Midwives:—

|                                                  |     |
|--------------------------------------------------|-----|
| Inspection of County Midwives                    | 142 |
| Inspection of Independent Midwives               | —   |
| Statutory supervision of District Nurse Midwives | 16  |
| Special visits to Midwives                       | 1   |
| Visits to pupil Midwives                         | 46  |
| Lectures to pupils and Midwives                  | —   |

Cases visited:—

|            |     |
|------------|-----|
| Labours    | 3   |
| Nursings   | 187 |
| Ante-natal | 64  |

### CASES ATTENDED BY COUNTY MIDWIVES AND DISTRICT NURSE MIDWIVES ON COUNTY COUNCIL STAFF

|                         | Deliveries (live and still)     |                             | Stillbirths included in Cols. a & b | Miscarriages |
|-------------------------|---------------------------------|-----------------------------|-------------------------------------|--------------|
|                         | Col. a<br>Doctor<br>not present | Col. b<br>Doctor<br>present |                                     |              |
| Midwives                | 2,990                           | 893                         | 14                                  | 65           |
| District Nurse Midwives | 840                             | 427                         | 7                                   | 33           |
| Total                   | 3,830                           | 1,320                       | 21                                  | 98           |

Number of patients attended by midwives following discharge from Hospital and before the tenth day 4750

**(c) Notifications received (Central Midwives Board Rules)**

|                        | 2000-2006 | 2007-2009 | 2010-2011 | 2012-2013 | 2014-2015 | 2016-2017 | 2018-2019 |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Medical Aid            | 1443      | 1443      | 1443      | 1443      | 1443      | 1443      | 1443      |
| Stillbirths            | 59        | 59        | 59        | 59        | 59        | 59        | 59        |
| Source of Infection    | 70        | 70        | 70        | 70        | 70        | 70        | 70        |
| Deaths in the Practice | 11        | 11        | 11        | 11        | 11        | 11        | 11        |

### (d) Inhalational Analgesia

- |                                                                                                                                       |  |  |  |  |      |
|---------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|------|
| (a) Number of domiciliary midwives practising in area<br>31/12/64, who were qualified to administer inhal-<br>ational analgesics..... |  |  |  |  | 172  |
| (b) Number of sets of apparatus in use by above, 31/12/64                                                                             |  |  |  |  |      |
| Gas and Air .....                                                                                                                     |  |  |  |  | 148  |
| Trilene .....                                                                                                                         |  |  |  |  | 40   |
| (c) Number of cases in which inhalational analgesics<br>were administered, 1964—                                                      |  |  |  |  |      |
| (a) when doctor was not present (i) Gas and Air                                                                                       |  |  |  |  | 2320 |
| (ii) Trilene .....                                                                                                                    |  |  |  |  | 693  |
| (b) when doctor was present (i) Gas and Air                                                                                           |  |  |  |  | 819  |
| (ii) Trilene .....                                                                                                                    |  |  |  |  | 343  |

### (e) Pethidine

Number of cases in which pethidine was administered by domiciliary midwives during 1964:—

- |                                 |          |          |          |          |      |
|---------------------------------|----------|----------|----------|----------|------|
| (a) When Doctor was not present | 11111111 | 11111111 | 11111111 | 11111111 | 2321 |
| (b) When Doctor was present     | 11111111 | 11111111 | 11111111 | 11111111 | 808  |

### (f) General

- |                                                                             |    |
|-----------------------------------------------------------------------------|----|
| (a) Number of houses owned by County Council                                | 9  |
| (b) Number of motor vehicles owned by County Council                        | 9  |
| (c) Number of County Midwives receiving County allowance for their own cars | 68 |
| (d) Number of telephone rentals being paid                                  | 79 |

### (g) Rota System in Domiciliary Midwifery

It has not yet proved possible to introduce a system whereby night calls are taken by midwives who are off-duty during the day.

The districts are such that usually 3 or 4 midwives cover an area and relieve each other; by this means two are always on duty. Alternatives to this method have been discussed with the midwives but they prefer to continue the present system, and it appears to work satisfactorily.

## SECTION VIII. MENTAL HEALTH

The further successful development of the County Mental Health Services during the year 1964 emphasizes the sound clinical principles underlying the Mental Health Act of 1959. The concept of community care for the mentally disordered, which is a fundamental theme of the Act, has been extended in all aspects of the service, and one can say with confidence that this growing development is in the very best interests of those county residents who require help through being involved, either directly or indirectly, with mental disorder.

### 1. COMMUNITY CARE

Training centres, both adult and junior, perhaps form one of the biggest contributions which the Council makes towards providing in the community an environment in which the subnormal can be brought up to his optimum level of development. During 1964 four new purpose-built adult training centres came into operation, at Crewe, Macclesfield, Northwich and Altrincham. At these four centres the same policy towards the sub-normal as that adopted at existing adult training centres has been implemented, namely:—

1. Socialisation programme: designed to develop within the sub-normal those achievements which will enable him to live a life in the community which is acceptable to the group to which he belongs.
2. Simple light assembly contract work: designed to enable the sub-normal to become conversant with workshop procedures and to receive a small weekly wage. The wage comes from the payment the factory makes for the work done.
3. Simple handcrafts of the woodwork and sewing type: designed to give the subnormal a change from the light assembly work and to enable him to have the experience of having made a useful article. This work is also essential from the point of view of occupying and training the subnormal at times when contract work has ceased temporarily.

The placement in gainful employment of subnormals from the adult training centres is one of the goals to which everybody concerned with the welfare of the subnormals strives. However, the number of trainees going out from the centre to employment has, so far, been small, in the region of 5%, and it is impossible to forecast when one can expect this figure to increase, as so many difficulties prevent the subnormal from succeeding in employment. These difficulties range from the very real limited ability of the trainee to the natural community re-action of apprehension at employing a mentally disordered person.

Junior training centres, of which there are six in the County, continue to follow a curriculum which is orientated more towards helping the severely subnormal child in simple personal skills of self help and communication, than to occupation.

The severely subnormal child has little prospect of obtaining employment on reaching the age of sixteen years, and therefore he takes his

place at the adult training centre. His instruction continues along the lines indicated earlier in this report. However, in order to prevent this becoming an automatic placement, and therefore losing the opportunity of placing the rare trainee for whom a job can be found, arrangements have been made with the County Youth Employment Officer whereby all junior training centre leavers together with their parents are seen by the local Youth Employment Officer so that employment prospects can be explored, in the same way as with all school leavers. One advantage of this is that it tends to lessen in the parents eyes the differences between their normal school leaving children and the severely subnormal child leaving a junior training centre.

The William Gibson Hostel at Wrenbury has, for a number of years, provided residential care for those male subnormals who for various reasons are unable to live either an independent life or with their own families. By December 1964 William Gibson Hostel had become filled with 40 resident subnormals, approximately 30% of whom were in gainful employment, and the remainder attended Crewe Adult Training Centre. The demand for accommodation of this type will continue to increase, and it was indeed fortunate that the 20-bedded Charles Wilson Hostel, adjacent to William Gibson Hostel, became available to the mental health service. Charles Wilson Hostel has been occupied in the past by tuberculous colonists, and as the whole problem of tuberculosis is lessening on a national scale, the need by the colonists for this hostel is now no longer there. Subnormals are admitted to Charles Wilson Hostel as the tuberculous colonists leave, and it is anticipated that the 20 beds will be fully occupied in 1965.

In 1964 the County Council opened its first hostel for the elderly mentally infirm, Hill Bark, Wirral, and by December 1964 there were 23 females and five males in this hostel, which can accommodate 30 females and 10 males. The clinical need for this accommodation cannot be overstressed, and a future building programme for this type of accommodation is a very real necessity. Prior to the opening of Hill Bark Hostel there was no alternative accommodation to the psychiatric hospital—psychogeriatric ward—for old persons who through senile changes could no longer remain at home or in an ordinary old persons' home. At Hill Bark Hostel one can see old people reaching the terminal stages of their life in an environment which is most suited to their needs.

Mention was made last year of the close liaison which exists between the Council's mental health service and the Regional Hospital Board through Dr. Pilkington's and Dr. Griffin's out-patient clinics in subnormality at Cranage Hall Hospital and Offerton House. The value of this integration of the two services is self evident and undoubtedly will continue.

Close liaison with the County Youth Employment service is maintained by virtue of the two-monthly meetings held at Adult training centres by the youth employment officers and the assistant county

medical officers. Meetings of this nature ensure that every effort is made by all concerned to place the subnormal school leavers in gainful employment.

During 1964 area mental welfare officers in various parts of the county were invited to attend careers conventions at grammar schools so that school leavers who were interested in commencing a career in mental health could be acquainted with the work and advised as to the best methods of obtaining qualifications. This development is regarded as a most important one as there is no doubt that the service which the community receives in the years to come will be directly related to the calibre of the staff which is recruited at the present time.

Cheadle Royal Sheltered Workshop continues to be of great value to those patients suffering from mental disorder who although capable of a reasonable degree of work and productivity are not sufficiently adequate in the community. By December 1964 there were in attendance at the Sheltered Workshop 13 males and 18 females.

The Industrial Therapy Organisation (Wirral) Ltd. was set up in 1962 to cater for persons who by reason of mental illness are unable for the time being to continue or return to normal employment. The primary object of the unit is rehabilitation by industrial therapy, but those attending receive a small remunerative sum of 10/- per week plus a hot meal in the middle of the day and travelling expenses are refunded. The Cheshire County Council take advantage of the facilities offered as one form of after-care in respect of patients for whom they are responsible, usually following discharge from hospital. The Cheshire County Council are represented on the Council of Management. 23 persons from Cheshire attended this workshop in 1964.

The Wirral Association for Mental Health run a social club in connection with the Industrial Therapy Organisation and this club is supported by Mental Welfare Officers from the Wirral.

During 1964 one female aged over sixteen years was transferred from hospital detention to guardianship of the local health authority. Three females were released from guardianship and one female was returned to a psychiatric hospital for subnormals. At the end of the year there were three females under the guardianship of the authority.

## 2. MENTAL WELFARE OFFICERS

A mental welfare officer is the social worker of the mental health service. This is a highly specialised section of the Health Department aimed at promoting better mental health within the community. It helps those people and families whose ability to cope is endangered by problems involving nervous and mental illness.

The mental welfare officer is the instrument of these services. He or she must be a guide, comforter and friend. The aims of the mental welfare officer must be to understand the jumble of factors which make up a personal social problem. He must help individuals and families to make a realistic plan to meet their difficulties, to provide information,

support, and always encouragement, which may enable them to use their own capacities and the community services so as to manage their own affairs.

Statutory duties are laid on the mental welfare officer by the Mental Health Act, 1959, chiefly in connection with the admission to psychiatric hospitals of those who are unable to decide for themselves that they need treatment. In these circumstances the mental welfare officer works in conjunction with the psychiatrist, general practitioner and the family. Supervision of subnormal members of the community is also the responsibility of the mental welfare officer.

Personal qualities of maturity, flexibility, intelligence, patience, warmth, tolerance, sensitivity and insight are required, so that training can develop the ability to take responsibility and make informed decisions. The reward is in terms of human happiness and personal satisfaction. The wisdom of the County Council in seconding officers for training in accordance with national policy on both the Mental Health Certificate course and the Certificate in Social Work course has proved invaluable in the help the mental welfare officer can give to the consultant psychiatrist.

It is indeed a pleasure to report that the mental welfare officers employed by the County Council are without exception very enthusiastic and devoted to the work involved in running a comprehensive mental health service. Periodic meetings of the County Medical Officer, the Senior Medical Officer for Mental Health, and the Area Mental Welfare Officers were held during the year to discuss various aspects of the work in the field of mental health.

## **Training**

The training of Mental Welfare Officers is still of paramount importance. A number of officers applied to Universities and Colleges of Further Education, but owing to shortage of places only one female officer was accepted for training for the Mental Health Certificate Course, 1964/65, at Manchester University. It is hoped that the figure will be improved upon next year. Of the Training Centre staffs one instructor from the Macclesfield Junior Training Centre was accepted for training at Manchester National Association of Mental Health Course and one instructor was accepted from the Ellesmere Port Adult Training Centre staff for the one-year Course at Birmingham also run by the National Association for Mental Health.

TABLE I

The following table shows the number of patients suffering from mental illness admitted to hospital by agency of the Mental Welfare Officers during the period 1st January to 31st December, 1964:—

| HOSPITAL                               | Mental Health Act, 1959    |     |                                |     |                              |    |                              |    |      |      | TOTAL |
|----------------------------------------|----------------------------|-----|--------------------------------|-----|------------------------------|----|------------------------------|----|------|------|-------|
|                                        | Sect. 5<br>(In-<br>formal) |     | Sect. 25<br>(Observ-<br>ation) |     | Sect. 26<br>(Treat-<br>ment) |    | Sect. 29<br>(Emer-<br>gency) |    |      |      |       |
|                                        | M.                         | F.  | M.                             | F.  | M.                           | F. | M.                           | F. | M.   | F.   |       |
| <i>Liverpool Region</i>                |                            |     |                                |     |                              |    |                              |    |      |      |       |
| Deva, Chester .....                    | 59                         | 77  | 26                             | 36  | 19                           | 31 | 14                           | 20 | 118  | 164  |       |
| Moston, Chester .....                  | 37                         | 86  | 4                              | 12  | 2                            | 3  | 3                            | 5  | 46   | 106  |       |
| Kingswood, Frodsham .....              | 6                          | 14  | —                              | 10  | —                            | —  | —                            | —  | 6    | 24   |       |
| Winwick, Warrington .....              | 31                         | 26  | 14                             | 16  | 8                            | 6  | 5                            | 6  | 58   | 54   |       |
| Delph, Winwick .....                   | 27                         | 57  | 2                              | 3   | —                            | —  | 2                            | —  | 31   | 60   |       |
| St. Catherine's, Birkenhead            | 20                         | 56  | 7                              | 10  | 1                            | 1  | 5                            | 9  | 33   | 76   |       |
|                                        | 180                        | 316 | 53                             | 87  | 30                           | 41 | 29                           | 40 | 292  | 484  |       |
| <i>Manchester Region</i>               |                            |     |                                |     |                              |    |                              |    |      |      |       |
| Parkside, Macclesfield .....           | 136                        | 188 | 101                            | 162 | 15                           | 21 | 13                           | 27 | 265  | 398  |       |
| Barony, Nantwich .....                 | 84                         | 124 | 20                             | 32  | —                            | —  | 11                           | 8  | 115  | 164  |       |
| St. Thomas, Stockport .....            | 12                         | 23  | 3                              | 5   | —                            | 2  | —                            | —  | 15   | 30   |       |
| Ashton General,<br>Ashton-u-Lyne ..... | 12                         | 46  | 4                              | 5   | —                            | —  | —                            | 2  | 16   | 53   |       |
|                                        | 244                        | 381 | 128                            | 204 | 15                           | 23 | 24                           | 37 | 411  | 645  |       |
| Cheadle Royal .....                    | 1                          | 12  | 8                              | 15  | —                            | 1  | 1                            | 1  | 10   | 29   |       |
| Other Hospitals .....                  | 7                          | 5   | 2                              | 2   | —                            | —  | —                            | —  | 9    | 7    |       |
|                                        | 8                          | 17  | 10                             | 17  | —                            | 1  | 1                            | 1  | 19   | 36   |       |
| Totals ———                             | 432                        | 714 | 191                            | 308 | 45                           | 65 | 54                           | 78 | 722  | 1165 |       |
| Combined Totals .....                  | 1146                       |     | 499                            |     | 110                          |    | 132                          |    | 1887 |      |       |

In addition 1 male patient was admitted to Parkside Hospital under Section 60 (Court Order) of the Mental Health Act, 1959 and there were 3 male 5 female patients admitted to hospital under Section 136 of the Mental Health Act 1959. (The initial action being taken by a police officer, Mental Welfare Officers being eventually involved).

|                                                                                                                                                                                 |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| Total number of patients admitted to Psychiatric Hospitals by agency of Mental Welfare Officers under all procedures during the period 1st January to 31st December, 1964 ..... | 1896 |
| Total number admitted during the corresponding period in 1963 .....                                                                                                             | 1971 |

The following particulars show the number of admissions from each of the nine Mental Welfare Officers' areas:—

|                                        |       |
|----------------------------------------|-------|
| Wirral .....                           | 230   |
| West Cheshire .....                    | 281   |
| Runcorn and Lymm .....                 | 237   |
| Mid-Cheshire .....                     | 213   |
| Crewe and Nantwich .....               | 138   |
| Altrincham, Sale and Knutsford .....   | 222   |
| Macclesfield and Congleton .....       | 244   |
| North-East Cheshire .....              | 142   |
| Hyde, Stalybridge and Dukinfield ..... | 189   |
|                                        | <hr/> |
|                                        | 1,896 |
|                                        | <hr/> |

In addition 703 (280 male and 423 female) cases were referred to Mental Welfare Officers in which no action was necessary under the Mental Health Act, but appropriate advice and help were given in other ways.

Mental Welfare Officers now have a wide range of duties, as indicated in the following table showing number of visits:—

|                                                                                               | Wirral | West<br>Cheshire | Runcorn<br>and Lymm | Mid-<br>Cheshire | Crewe and<br>Nantwich | Altrincham<br>Sale and<br>Knutsford | Macclesfield<br>and<br>Congleton | North-East<br>Cheshire | Stalybridge<br>Hyde and<br>Dukinfield |
|-----------------------------------------------------------------------------------------------|--------|------------------|---------------------|------------------|-----------------------|-------------------------------------|----------------------------------|------------------------|---------------------------------------|
| <i>Community Care</i>                                                                         |        |                  |                     |                  |                       |                                     |                                  |                        |                                       |
| After-care following<br>discharge from<br>hospital .....                                      | 1353   | 1359             | 1397                | 303              | 434                   | 1100                                | 1334                             | 492                    | 921                                   |
| Accompanying Con-<br>sultant Psychiatrist<br>or General<br>Practitioner .....                 | 66     | 97               | 108                 | 187              | 64                    | 166                                 | 232                              | 136                    | 399                                   |
| Obtaining Case His-<br>tories or case notes                                                   | 137    | 144              | 83                  | 327              | 26                    | 301                                 | 38                               | 109                    | 201                                   |
| Whilst patient is<br>still in Hospital                                                        | 200    | 176              | 204                 | 94               | 56                    | 176                                 | 202                              | 145                    | 213                                   |
| Miscellaneous cases<br>(requiring pre-care<br>advice, etc.) .....                             | 639    | 506              | 1003                | 295              | 284                   | 941                                 | 1124                             | 432                    | 619                                   |
| Supervision of<br>persons suffering<br>from subnormality<br>or severe sub-<br>normality ..... | 783    | 487              | 755                 | 739              | 745                   | 534                                 | 617                              | 816                    | 321                                   |
| <i>Hospital Visits</i>                                                                        |        |                  |                     |                  |                       |                                     |                                  |                        |                                       |
| To patients admitted<br>from County area .....                                                | 69     | 232              | 17                  | 318              | 38                    | 51                                  | 133                              | 124                    | 180                                   |
| Attendances at Case<br>Conferences .....                                                      | 85     | 81               | 5                   | 11               | 11                    | 146                                 | 144                              | 58                     | 24                                    |
| Consultations with<br>Medical and<br>Nursing Staff .....                                      | 230    | 757              | 129                 | 440              | 102                   | 104                                 | 734                              | 806                    | 777                                   |
| Consultations with<br>other Agencies,<br>N.A.B. Ministry of<br>Labour, etc. ....              | 95     | 375              | 36                  | 135              | 167                   | 142                                 | 279                              | 590                    | 257                                   |
| <b>Total</b> .....                                                                            | 3657   | 4214             | 3737                | 2849             | 1927                  | 3661                                | 4837                             | 3708                   | 3912                                  |

## Office Interviews

During the year 1,413 office interviews took place in connection with mentally-ill persons, and 352 relating to the mentally subnormal.

During the year 364 cases were referred by Mental Welfare Officers to Out-patients' Clinics, and Mental Welfare Officers attended various sessions at such clinics and helped to convey patients to them. The following table shows the number of attendances made and the number of patients conveyed:—

TABLE III

|                                  | <i>No. of<br/>Attendances</i> | <i>No. of<br/>patients escorted<br/>to Out-patient<br/>Clinics</i> |
|----------------------------------|-------------------------------|--------------------------------------------------------------------|
| Wirral                           | 258                           | 8                                                                  |
| West Cheshire                    | 145                           | 61                                                                 |
| Runcorn and Lymm                 | 178                           | 69                                                                 |
| Mid-Cheshire                     | 84                            | 87                                                                 |
| Crewe and Nantwich               | 126                           | 99                                                                 |
| Altrincham, Sale and Knutsford   | 318                           | 169                                                                |
| Macclesfield and Congleton       | 594                           | 140                                                                |
| North-East Cheshire              | 227                           | 95                                                                 |
| Stalybridge, Hyde and Dukinfield | 243                           | 193                                                                |
|                                  | <hr/> 2,173 <hr/>             | <hr/> 921 <hr/>                                                    |

The County is covered by the following Clinics, and as far as possible patients are referred to the nearest establishment:—

|                    |                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Wirral             | St. Catherine's Hospital Annexe,<br>Birkenhead<br>Victoria Central Hospital, Wallasey<br>Clatterbridge Hospital, Bebington<br>Cottage Hospital, Hoylake                                             |
| West Cheshire      | Ellesmere Port Hospital<br>Moston Hospital, Chester<br>Royal Infirmary, Chester<br>Deva Hospital, Chester                                                                                           |
| Runcorn            | Victoria Memorial Hospital, Runcorn<br>The Infirmary, Warrington<br>General Hospital, Warrington<br>Winwick Hospital, Winwick<br>Widnes Accident Hospital, Widnes<br>Child Welfare Centre, Frodsham |
| Mid-Cheshire       | Victoria Infirmary, Northwich                                                                                                                                                                       |
| Crewe and Nantwich | Memorial Hospital, Crewe<br>Barony Hospital, Nantwich.                                                                                                                                              |

|                                  |                                                                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Altrincham, Sale and Knutsford   | Sale and Brooklands War Memorial Hospital<br>Knutsford and District<br>War Memorial Cottage Hospital                                  |
| Macclesfield and Congleton       | Rosemount Clinic, Macclesfield<br>West Park Hospital, Macclesfield<br>Cranage Hall Hospital, Holmes Chapel                            |
| North-East Cheshire              | Stepping Hill Hospital, Stockport<br>St. Thomas's Hospital, Stockport<br>Cheadle Royal Hospital, Cheadle<br>Offerton House, Stockport |
| Stalybridge, Hyde and Dukinfield | Ashton General Hospital, Ashton-u-Lyne                                                                                                |

### 3. TRAINING CENTRES AND HOSPITALS FOR MENTALLY SUBNORMAL

#### (a) Training Centres

The table below shows the numbers of Cheshire cases on the registers of training centres at the end of 1964:—

TABLE IV  
*County Training Centres*

|                                  |       | <i>Under 16</i> |           | <i>Over 16</i> |           |              |
|----------------------------------|-------|-----------------|-----------|----------------|-----------|--------------|
| <i>Junior :</i>                  |       | <i>M.</i>       | <i>F.</i> | <i>M.</i>      | <i>F.</i> | <i>Total</i> |
| Altrincham                       | ..... | 23              | 17        | —              | —         | 40           |
| Bebington (Eastham)              | ..... | 40              | 23        | —              | —         | 63           |
| Hyde                             | ..... | 31              | 18        | —              | —         | 49           |
| Macclesfield                     | ..... | 41              | 20        | —              | —         | 61           |
| Northwich                        | ..... | 27              | 19        | —              | —         | 46           |
| Crewe                            | ..... | 16              | 22        | —              | —         | 38           |
| <i>Adult :</i>                   |       |                 |           |                |           |              |
| Altrincham                       | ..... | —               | —         | 21             | 21        | 42           |
| Crewe                            | ..... | —               | —         | 46             | 23        | 69           |
| Ellesmere Port                   | ..... | —               | —         | 45             | 35        | 80           |
| Hyde                             | ..... | —               | —         | 28             | 30        | 58           |
| Macclesfield                     | ..... | —               | —         | 20             | 37        | 57           |
| Northwich                        | ..... | —               | —         | 16             | 19        | 35           |
|                                  |       | 178             | 119       | 176            | 165       | 638          |
| <i>Other Authorities' Centre</i> |       |                 |           |                |           |              |
| Chester                          | ..... | 6               | 11        | —              | —         | 17           |
|                                  |       | 6               | 11        | —              | —         | 17           |

*Voluntary Centres*

|                                                  | <i>Under 16</i> |           | <i>Over 16</i> |           | <i>Total</i> |
|--------------------------------------------------|-----------------|-----------|----------------|-----------|--------------|
|                                                  | <i>M.</i>       | <i>F.</i> | <i>M.</i>      | <i>F.</i> |              |
| Altrincham Day Care Unit (The Rowans)            | 9               | 3         | —              | —         | 12           |
| Crewe Spastics Centre .....                      | —               | 1         | —              | —         | 1            |
| Granville House Spastics Centre, Stockport ..... | 3               | 5         | —              | —         | 8            |
| Pictor House Spastics Centre, Sale.....          | 9               | 10        | —              | —         | 19           |
| Rodney House Spastics Centre, Manchester         | 8               | —         | —              | —         | 8            |
|                                                  | 29              | 19        | —              | —         | 48           |

**(b) Hospital Accommodation for the Mentally Subnormal**

During the year 1964 vacancies were found in hospitals as follows for persons suffering from mental subnormality:—

|                                               |                |
|-----------------------------------------------|----------------|
| Ashton House, Birkenhead .....                | 1              |
| Brockhall Hospital, Langho, Blackburn .....   | 2              |
| Cranage Hall Hospital, Holmes Chapel .....    | 53             |
| Crow Wood Hospital, Widnes .....              | 1              |
| Greaves Hall Hospital, Banks, Southport ..... | 7              |
| Mary Dendy Hospital, Alderley Edge .....      | 1              |
| Manor Hospital, Great Sutton, Wirral .....    | 1              |
| Newchurch Hospital, Warrington .....          | 1              |
| Offerton House, Stockport .....               | 1              |
| Olive Mount Hospital, Liverpool .....         | 2              |
| Rampton Hospital, Retford, Notts. ....        | 1              |
| Rathbone Hospital, Liverpool .....            | 1              |
| Swinton Hospital, Manchester .....            | 2              |
|                                               | <hr/> 74 <hr/> |

THE FOLLOWING STATISTICS ARE THOSE WHICH HAVE BEEN SUPPLIED TO MEET MINISTRY OF HEALTH REQUIREMENTS

| Number of patients under L.H.A. care at 31/12/64                                        | Mentally Ill |       |             |       | Psychopathic |       |             |       | Subnormal    |        |             |        | Severely Subnormal |        |             |        | Totals (cols. 9-16) |            |             |  |
|-----------------------------------------------------------------------------------------|--------------|-------|-------------|-------|--------------|-------|-------------|-------|--------------|--------|-------------|--------|--------------------|--------|-------------|--------|---------------------|------------|-------------|--|
|                                                                                         | Under Age 16 |       | 16 and over |       | Under Age 16 |       | 16 and over |       | Under age 16 |        | 16 and over |        | Under Age 16       |        | 16 and over |        | Under Age 16        |            | 16 and over |  |
|                                                                                         | M (1)        | F (2) | M (3)       | F (4) | M (5)        | F (6) | M (7)       | F (8) | M (9)        | F (10) | M (11)      | F (12) | M (13)             | F (14) | M (15)      | F (16) | M & F (17)          | M & F (19) |             |  |
| (a) Total number                                                                        | 1            | 1     | 334         | 557   | —            | —     | 7           | 2     | 6            | 1      | 405         | 300    | 237                | 156    | 260         | 235    | 400                 | 1200       |             |  |
| (b) Attending day training centre                                                       | —            | —     | 8           | 7     | —            | —     | —           | —     | —            | —      | 65          | 49     | 178                | 119    | 111         | 116    | 297                 | 341        |             |  |
| Awaiting entry thereto                                                                  | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | —           | 3      | 7                  | 4      | 4           | 2      | 11                  | 9          |             |  |
| (c) Resident in L.A. home/hostel                                                        | —            | —     | 2           | 15    | —            | —     | —           | —     | —            | —      | 22          | 6      | —                  | —      | 23          | 3      | —                   | 54         |             |  |
| Awaiting residence in L.A. home/hostel                                                  | —            | —     | —           | 1     | —            | —     | —           | —     | —            | —      | —           | 6      | 1                  | 5      | —           | 15     | 6                   | 21         |             |  |
| Resident at L.A. expense in other residential homes/hostels                             | —            | —     | —           | 1     | —            | —     | —           | —     | —            | —      | —           | —      | 3                  | 3      | 1           | 1      | 6                   | 2          |             |  |
| (d) Receiving home visits and not included under (b) and (c).                           | 1            | 1     | 324         | 533   | —            | —     | 7           | 2     | 5            | 1      | 274         | 217    | 138                | 20     | 87          | 88     | 164                 | 666        |             |  |
| Number of patients in L.H.A. area on waiting list for admission to hospital at 31/12/64 |              |       |             |       |              |       |             |       |              |        |             |        |                    |        |             |        |                     |            |             |  |
| (a) In urgent need of hospital care                                                     | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | 1           | —      | 15                 | 10     | 7           | 4      | 25                  | 12         |             |  |
| (b) Not in urgent need of hospital care                                                 | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | 2           | 4      | 8                  | 4      | 7           | 6      | 12                  | 19         |             |  |
| TOTAL                                                                                   | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | 3           | 4      | 23                 | 14     | 14          | 10     | 37                  | 31         |             |  |
| Number of admissions for temporary residential care                                     |              |       |             |       |              |       |             |       |              |        |             |        |                    |        |             |        |                     |            |             |  |
| (a) To N.H.S. hospitals                                                                 | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | 1           | 6      | 11                 | 6      | 5           | 23     | 17                  | 35         |             |  |
| (b) To L.A. Residential accommodation                                                   | —            | —     | 1           | —     | —            | —     | —           | —     | —            | —      | 3           | —      | 4                  | —      | 3           | 1      | 4                   | 7          |             |  |
| (c) Elsewhere                                                                           | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | —           | 1      | 52                 | 30     | 2           | 3      | 82                  | 6          |             |  |
| TOTAL                                                                                   | —            | —     | 1           | —     | —            | —     | —           | —     | —            | —      | 4           | 7      | 67                 | 36     | 10          | 27     | 103                 | 48         |             |  |
| Number of patients referred to L.H.A. during year ended 31/12/64 by                     |              |       |             |       |              |       |             |       |              |        |             |        |                    |        |             |        |                     |            |             |  |
| (a) General practitioners                                                               | 10           | 8     | 643         | 1208  | —            | —     | 4           | —     | 1            | —      | 2           | 1      | —                  | —      | —           | 3      | 1                   | 6          |             |  |
| (b) Hospitals, on discharge from in-patient treatment                                   | —            | 2     | 502         | 775   | —            | —     | 2           | 2     | 1            | —      | 15          | 2      | —                  | —      | 9           | 6      | 1                   | 32         |             |  |
| Hospitals, after or during out-patient or day treatment                                 | 3            | 3     | 257         | 447   | —            | —     | 2           | —     | —            | —      | 2           | 2      | —                  | —      | 1           | —      | —                   | 5          |             |  |
| Local education authorities                                                             | —            | —     | 1           | —     | —            | —     | —           | —     | 2            | 1      | 8           | 9      | 41                 | 32     | —           | —      | 76                  | 17         |             |  |
| Police and courts                                                                       | —            | 1     | 135         | 117   | —            | —     | 3           | —     | —            | —      | 2           | —      | —                  | —      | —           | —      | —                   | 2          |             |  |
| Other sources                                                                           | 7            | 7     | 409         | 536   | —            | —     | 4           | 9     | 2            | —      | 19          | 21     | —                  | 1      | 6           | 3      | 3                   | 49         |             |  |
| TOTAL                                                                                   | 20           | 21    | 1947        | 3083  | —            | —     | 15          | 11    | 6            | 1      | 48          | 35     | 41                 | 33     | 16          | 12     | 81                  | 111        |             |  |



THE FOLLOWING STATISTICS ARE THOSE WHICH HAVE BEEN SUPPLIED TO MEET MINISTRY OF HEALTH REQUIREMENTS

|                                                                                         | Mentally Ill |       |             |       | Psychopathic |       |             |       | Subnormal    |        |             |        | Severely Subnormal |        |             |        | Totals (cols. 9-16) |            |             |  |
|-----------------------------------------------------------------------------------------|--------------|-------|-------------|-------|--------------|-------|-------------|-------|--------------|--------|-------------|--------|--------------------|--------|-------------|--------|---------------------|------------|-------------|--|
|                                                                                         | Under Age 16 |       | 16 and over |       | Under Age 16 |       | 16 and over |       | Under age 16 |        | 16 and over |        | Under Age 16       |        | 16 and over |        | Under Age 16        |            | 16 and over |  |
|                                                                                         | M (1)        | F (2) | M (3)       | F (4) | M (5)        | F (6) | M (7)       | F (8) | M (9)        | F (10) | M (11)      | F (12) | M (13)             | F (14) | M (15)      | F (16) | M & F (17)          | M & F (19) |             |  |
| Number of patients under L.H.A. care at 31/12/64                                        |              |       |             |       |              |       |             |       |              |        |             |        |                    |        |             |        |                     |            |             |  |
| (a) Total number                                                                        | 1            | 1     | 334         | 557   | —            | —     | 7           | 2     | 6            | 1      | 405         | 300    | 237                | 156    | 260         | 235    | 400                 | 1200       |             |  |
| (b) Attending day training centre                                                       | —            | —     | 8           | 7     | —            | —     | —           | —     | —            | —      | 65          | 49     | 178                | 119    | 111         | 116    | 297                 | 341        |             |  |
| Awaiting entry thereto                                                                  | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | —           | 3      | 7                  | 4      | 4           | 2      | 11                  | 9          |             |  |
| Resident in L.A. home/hostel                                                            | —            | —     | 2           | 15    | —            | —     | —           | —     | —            | —      | 22          | 6      | —                  | —      | 23          | 3      | —                   | 54         |             |  |
| Awaiting residence in L.A. home/hostel                                                  | —            | —     | —           | 1     | —            | —     | —           | —     | —            | —      | —           | 6      | 1                  | 5      | —           | 15     | 6                   | 21         |             |  |
| Resident at L.A. expense in other residential homes/hostels                             | —            | —     | —           | 1     | —            | —     | —           | —     | —            | —      | —           | —      | 3                  | 3      | 1           | 1      | 6                   | 2          |             |  |
| (c) Receiving home visits and not included under (b) and (c).                           | 1            | 1     | 324         | 533   | —            | —     | 7           | 2     | 5            | 1      | 274         | 217    | 138                | 20     | 87          | 88     | 164                 | 666        |             |  |
| Number of patients in L.H.A. care on waiting list for admission to hospital at 31/12/64 |              |       |             |       |              |       |             |       |              |        |             |        |                    |        |             |        |                     |            |             |  |
| (a) In urgent need of hospital care                                                     | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | 1           | —      | 15                 | 10     | 7           | 4      | 25                  | 12         |             |  |
| (b) Not in urgent need of hospital care                                                 | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | 2           | 4      | 8                  | 4      | 7           | 6      | 12                  | 19         |             |  |
| TOTAL                                                                                   |              | —     | —           | —     | —            | —     | —           | —     | —            | —      | 3           | 4      | 23                 | 14     | 14          | 10     | 37                  | 31         |             |  |
| Number of admissions for temporary residential care                                     |              |       |             |       |              |       |             |       |              |        |             |        |                    |        |             |        |                     |            |             |  |
| (a) To N.H.S. hospitals                                                                 | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | 1           | 6      | 11                 | 6      | 5           | 23     | 17                  | 35         |             |  |
| (b) To L.A. Residential accommodation                                                   | —            | —     | 1           | —     | —            | —     | —           | —     | —            | —      | 3           | —      | 4                  | —      | 3           | 1      | 4                   | 7          |             |  |
| (c) Elsewhere                                                                           | —            | —     | —           | —     | —            | —     | —           | —     | —            | —      | —           | 1      | 52                 | 30     | 2           | 3      | 82                  | 6          |             |  |
| TOTAL                                                                                   |              | —     | —           | 1     | —            | —     | —           | —     | —            | —      | 4           | 7      | 67                 | 36     | 10          | 27     | 103                 | 48         |             |  |
| Number of patients referred to L.H.A. during year ended 31/12/64 by                     |              |       |             |       |              |       |             |       |              |        |             |        |                    |        |             |        |                     |            |             |  |
| (a) General practitioners                                                               | 10           | 8     | 643         | 1208  | —            | —     | 4           | —     | 1            | —      | 2           | 1      | —                  | —      | —           | 3      | 1                   | 6          |             |  |
| (b) Hospitals, on discharge from in-patient treatment                                   | —            | 2     | 502         | 775   | —            | —     | 2           | 2     | 1            | —      | 15          | 2      | —                  | —      | 9           | 6      | 1                   | 32         |             |  |
| (c) Hospitals, after or during out-patient or day treatment                             | 3            | 3     | 257         | 447   | —            | —     | 2           | —     | —            | —      | 2           | 2      | —                  | —      | 1           | —      | —                   | 5          |             |  |
| (d) Local education authorities                                                         | —            | —     | 1           | —     | —            | —     | —           | —     | 2            | 1      | 8           | 9      | 41                 | 32     | —           | —      | 76                  | 17         |             |  |
| (e) Police and courts                                                                   | —            | 1     | 135         | 117   | —            | —     | 3           | —     | —            | —      | 2           | —      | —                  | —      | —           | —      | —                   | 2          |             |  |
| (f) Other sources                                                                       | 7            | 7     | 409         | 536   | —            | —     | 4           | 9     | 2            | —      | 19          | 21     | —                  | 1      | 6           | 3      | 3                   | 49         |             |  |
| TOTAL                                                                                   |              | 20    | 21          | 1947  | 3083         | —     | —           | 15    | 11           | 6      | 1           | 48     | 35                 | 41     | 33          | 16     | 12                  | 81         | 111         |  |

## SECTION IX.-DOMESTIC HELP

Under Section 29 of the National Health Service Act, 1946, the County Council is empowered to provide a Domestic Help Service for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, aged, or a child not over compulsory school age.

The service is one of those which have been devolved to Divisional Health Committees for organisation, administration, and management within the approved estimates. It is not one of the services provided free under the Act, and the Local Health Authority has adopted an appropriate payment scale.

Staff employed at 31st December, 1964:—

|                              | Supervisors | Domestic Helps |
|------------------------------|-------------|----------------|
| (a) Whole-time .....         | 11          | 21             |
| (b) Part-time .....          | —           | 929            |
| Whole-time equivalent of (b) |             | 318            |

Details of the work carried out in each Division during 1964 are given in the following table:—

NUMBER OF HOURS HELP PROVIDED

| Division                            | Persons<br>65 yrs.<br>or<br>over | Persons under 65 years on First Visit<br>in 1964 |                      |               |               | Total          |
|-------------------------------------|----------------------------------|--------------------------------------------------|----------------------|---------------|---------------|----------------|
|                                     |                                  | Chronic<br>sick<br>& T.B.                        | Mentally<br>Disabled | Maternity     | Others        |                |
| Altrincham .....                    | 12,810                           | 1,024                                            | 6                    | 1,291         | 1,652         | 16,783         |
| Bebington .....                     | 37,178                           | 5,203                                            | 479                  | 1,309         | 2,788         | 46,957         |
| Cheadle and<br>Wilmslow .....       | 25,403                           | 3,439                                            | 26                   | 3,085         | 4,467         | 36,420         |
| Crewe .....                         | 63,385                           | 4,559                                            | —                    | 59            | 2,506         | 70,509         |
| Deeside .....                       | 43,743                           | 4,182                                            | 396                  | 2,671         | 5,731         | 56,723         |
| Hyde .....                          | 24,641                           | 1,621                                            | 432                  | 235           | 162           | 27,091         |
| Macclesfield .....                  | 32,908                           | 4,989                                            | 433                  | 2,104         | 599           | 41,033         |
| Mid-Cheshire .....                  | 29,152                           | 1,439                                            | —                    | 540           | 1,141         | 32,272         |
| Nantwich .....                      | 23,390                           | 3,726                                            | 1,194                | 686           | 575           | 29,571         |
| N.E. Cheshire .....                 | 32,002                           | 4,001                                            | 96                   | 4,847         | 2,168         | 43,114         |
| Runcorn .....                       | 39,480                           | 6,074                                            | 114                  | 1,698         | 1,342         | 48,708         |
| Sale and Lymm .....                 | 13,629                           | 2,041                                            | —                    | 2,093         | 1,399         | 19,162         |
| S.E. Cheshire .....                 | 48,375                           | 15,785                                           | —                    | 1,235         | —             | 65,395         |
| S.W. Cheshire .....                 | 59,670                           | 2,422                                            | 25                   | 2,015         | 7,949         | 72,081         |
| Stalybridge and<br>Dukinfield ..... | 32,732                           | 1,696                                            | 32                   | 345           | —             | 34,805         |
| <b>Total .....</b>                  | <b>518,498</b>                   | <b>62,201</b>                                    | <b>3,233</b>         | <b>24,213</b> | <b>32,479</b> | <b>640,624</b> |

NUMBER OF DOMESTIC HELPS AND CASES HELPED, 1964

| Division                      | HELPS          |                                                  | Persons<br>65 yrs.<br>or<br>over | Persons under 65 yrs. on First Visit in 1964 |                        |           |        | Total |
|-------------------------------|----------------|--------------------------------------------------|----------------------------------|----------------------------------------------|------------------------|-----------|--------|-------|
|                               | Whole-<br>time | Part-time<br>No.<br>whole-<br>time<br>equivalent |                                  | Chronic<br>Sick<br>and T.B.                  | Mentally<br>Disordered | Maternity | Others |       |
| Altrincham                    | —              | 28                                               | 185                              | 17                                           | 1                      | 44        | 76     | 323   |
| Bebington                     | —              | 50                                               | 224                              | 24                                           | 6                      | 41        | 52     | 347   |
| Cheadle and<br>Wilmslow       | 2              | 49                                               | 166                              | 19                                           | 3                      | 98        | 52     | 338   |
| Crewe                         | —              | 129                                              | 262                              | 23                                           | —                      | 3         | 15     | 303   |
| Deeside                       | —              | 71                                               | 250                              | 29                                           | 1                      | 86        | 77     | 443   |
| Hyde                          | —              | 23                                               | 221                              | 15                                           | 4                      | 12        | 2      | 254   |
| Macclesfield                  | —              | 53                                               | 265                              | 23                                           | 5                      | 55        | 12     | 360   |
| Mid-Cheshire                  | —              | 63                                               | 167                              | 9                                            | —                      | 17        | 14     | 207   |
| Nantwich                      | —              | 69                                               | 101                              | 15                                           | 4                      | 14        | 11     | 145   |
| N.E. Cheshire                 | —              | 56                                               | 242                              | 31                                           | 1                      | 172       | 67     | 513   |
| Runcorn                       | —              | 82                                               | 231                              | 28                                           | 1                      | 57        | 19     | 336   |
| Sale and Lymm                 | —              | 27                                               | 155                              | 16                                           | —                      | 79        | 47     | 297   |
| S.E. Cheshire                 | —              | 94                                               | 180                              | 61                                           | —                      | 29        | —      | 270   |
| S.W. Cheshire                 | —              | 121                                              | 255                              | 13                                           | 1                      | 75        | 51     | 395   |
| Stalybridge and<br>Dukinfield | 19             | 14                                               | 258                              | 11                                           | 2                      | 7         | —      | 278   |
| Total                         | 21             | 929                                              | 3,162                            | 334                                          | 29                     | 789       | 495    | 4,809 |

## SECTION X. HOME NURSING

Under Section 25 of the National Health Service Act, the County Council has the duty to provide a full service for nursing sick persons at home free of charge to the patient.

Details of the nurses and nurse-midwives employed by the County Council are given earlier in this report, together with their districts.

Small nursing appliances such as urinals, hot water bottles, bed-pans, feeding cups, mackintosh sheets, air rings, back rests, inhalers and sputum mugs are kept by nurses for loan to their patients; large items such as special beds, wheel chairs, spinal carriages are available at the Divisional Offices. This service forms part of the County Council's arrangements under Section 28 of the Act.

The following statistics give some idea of the scope of the service and the work done during 1964:—

(a) Number of Home Nurses at 31/12/64:—

|                                         |     |
|-----------------------------------------|-----|
| (1) Whole-time on General Nursing ..... | 83  |
| (2) Part-time on General Nursing .....  | 124 |

(b) Equivalent whole-time home nursing service provided in (a) (2) ..... 76

(c) Number of houses owned by County Council ..... 25

(d) Number of motor vehicles owned by County Council ..... 20

(e) Number of nurses receiving County allowance for their own cars ..... 181

(f) Number of telephone rentals being paid ..... 174

(g) Cases and visits were as follows:

| <i>Types of Cases</i>        | <i>Cases</i>  | <i>Visits</i>  |
|------------------------------|---------------|----------------|
| Medical .....                | 7,937         | 197,656        |
| Surgical .....               | 8,188         | 188,464        |
| Tuberculosis .....           | 114           | 4,351          |
| Maternal complications ..... | 46            | 331            |
| Others .....                 | 1,166         | 7,602          |
| <i>Total</i>                 | <i>17,451</i> | <i>398,404</i> |

Cases included above who:—

(i) at the time of the first visit during the year were

|                                  |        |         |
|----------------------------------|--------|---------|
| (a) 65 years or over .....       | 10,170 | 226,192 |
| (b) Children under 5 years ..... | 403    | 3,199   |

(ii) had more than 24 visits during the year

|       |         |
|-------|---------|
| 4,069 | 255,347 |
|-------|---------|

(h) The following visits were paid by the Superintendent and Assistant Superintendents:—

|       |                                |                         |       |       |       |
|-------|--------------------------------|-------------------------|-------|-------|-------|
| (i)   | Inspections                    | —District Nurses        | ..... | ..... | 211   |
|       |                                | District Nurse Midwives | ..... | ..... | 190   |
| (ii)  | Special visits                 | .....District Nurses    | ..... | ..... | 17    |
|       |                                | District Nurse Midwives | ..... | ..... | 22    |
| (iii) | Meetings and lectures attended |                         | ..... | ..... | 32    |
| (iv)  | Cases                          | Medical                 | ..... | ..... | 1,051 |
|       |                                | Surgical                | ..... | ..... | 407   |
|       |                                | Injections              | ..... | ..... | 635   |
|       |                                | Casual                  | ..... | ..... | 1     |

## SECTION XI. HANDICAPPED PERSONS

### 1. GENERAL

Under Section 29 of the National Assistance Act, 1948, the County Council provides Welfare Services for handicapped persons, and the scheme under this heading has been made the responsibility of the County Health Committee.

The classes of handicapped persons to which the section applies are the blind, the partially sighted, the deaf and dumb, and others substantially and permanently handicapped by illness, injury, congenital deformity, or such other disability as may be prescribed.

### 2. BLIND PERSONS

The Council's approved scheme so made continues, with necessary amplification, the scheme carried out in previous years in accordance with the Blind Persons Acts. Its details are executed by the Blind Welfare Societies at Chester, Ashton-under-Lyne, and Macclesfield, with which appropriate financial arrangements have been made. The Welfare Services of these Societies have been extended, so far as they are applicable, to partially sighted persons.

#### (a) Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants were examined by one of the County Ophthalmologists. Those who so wished were examined a second time under the Medical Referee Service—conducted jointly with the North Regional Association—by independent Medical Referees.

#### (b) Statistics

Number of Registered Blind Persons in the County at 31st December

|                           |  |  |      |
|---------------------------|--|--|------|
|                           |  |  | 1964 |
| Under 5 years .. .. .     |  |  | 10   |
| 5—16 years .. .. .        |  |  | 32   |
| 16—21 years .. .. .       |  |  | 19   |
| 21—40 years .. .. .       |  |  | 77   |
| 40—50 years .. .. .       |  |  | 102  |
| 50—65 years .. .. .       |  |  | 278  |
| 65—70 years .. .. .       |  |  | 175  |
| 70 years and over .. .. . |  |  | 1014 |
| Unknown age .. .. .       |  |  | —    |
| Total .. .. .             |  |  | 1707 |

Registered Blind Persons in County, aged over 16 years, employed,  
or otherwise, at 31st December, 1964—

|                |                            |      |
|----------------|----------------------------|------|
| Employed       | { in Workshops & Workrooms | 15   |
|                | { as Home workers          | 14   |
|                | { variously                | 91   |
| Not employed : |                            |      |
|                | Under 65 years of age      | 348  |
|                | 65 years of age and over   | 1183 |
|                | Undergoing Training        | 11   |
|                | At School                  | 3    |

### (c) Incidence of Blindness

During the year 1964 there were 501 forms B.D.8 received for the County. These were classified as follows:—

|                                       |     |
|---------------------------------------|-----|
| Registered as Blind.....              | 291 |
| Registered as Partially Sighted ..... | 156 |
| Not registered .....                  | 54  |

### (d) Follow-up:

| (i) Number of cases registered during 1964 in respect of which para. 7 (c) of Forms B.D.8 recommended:— | Cause of Disability |      |          |      |                         |      |        |      |
|---------------------------------------------------------------------------------------------------------|---------------------|------|----------|------|-------------------------|------|--------|------|
|                                                                                                         | Cataract            |      | Glaucoma |      | Retrolental Fibroplasia |      | Others |      |
|                                                                                                         | B                   | P.S. | B        | P.S. | B                       | P.S. | B      | P.S. |
| (a) No treatment                                                                                        | 58                  | 20   | 20       | 2    | —                       | —    | 99     | 41   |
| (b) Treatment (medical, surgical or optical)                                                            | 43                  | 34   | 33       | 23   | —                       | —    | 39     | 35   |
| (ii) Number of cases at (i) (b) above which on follow-up action have received treatment                 | 14                  | 11   | 15       | 10   | —                       | —    | 9      | 10   |

B—Blind.

P.S.—Partially Sighted.

### (e) Ophthalmia Neonatorum

Two cases of Ophthalmia Neonatorum were notified during 1964.

### (f) Workshop Employees

Annual grants were continued on the usual principles to recognised Workshops for Cheshire employees. A “minimum wage” principle has been adopted for certain workers, their income being made up to a nationally agreed fixed amount. On this principle there were 4 male and 1 female employees at Chester, 2 male employees at Stoke-on-Trent, 5 males and 1 female at Henshaw’s, 1 male employee at Warrington, 2 male employees at Stockport and 1 male employee at Liverpool at the end of 1964.

### (g) Home Workers

The three voluntary societies arranged for the employment at home of those capable of it. Augmentation in accordance with the National Scheme was given by the Council to all County approved Workers, who numbered 12 at the end of 1964.

#### **(h) Holidays**

During the year 27 blind persons were accommodated in holiday homes under the County Scheme whereby blind persons in receipt of National Assistance benefit can be sent to a recognised home for the blind. The blind person pays £1 towards the cost of one week's holiday, and the balance is paid by the County Council.

#### **(i) Rehabilitation**

Three women were maintained during 1964 at the National Institutes Rehabilitation Centre, Oldbury Grange, Bridgnorth.

#### **(j) National Library for the Blind**

Grant and augmentation were made in 1964 to the National Library for the Blind on behalf of 3 Cheshire Home Workers who are Blind Copyists for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

#### **(k) Other Services**

The usual annual grants were continued in 1964 to the National Institute for the Blind and the North Regional Association for their respective national and regional services.

Grants are made when necessary towards training blind persons to work with guide dogs.

#### **(l) Wireless Certificates**

250 Certificates entitling the recipients to a free wireless licence were issued in 1964 to applicants on the register.

#### **(m) Social Clubs**

These clubs meet weekly for about three to four hours and their activities include simple handicrafts, games, and a number of afternoon outings in the summer months. There are clubs at Stalybridge, Hyde, Cheadle and Marple.

### **3. DEAF PERSONS**

The County is fully covered by voluntary societies for the welfare of the deaf, and financial grants are made by the County Council to these societies, which act as authorised agents for the provision of advice and help, when desired, for the establishment of social centres, and for outings and other recreational activities. A grant is also paid to the North Regional Association for the Deaf in respect of its statistical, co-ordinating, and educational work.

The registers kept by the societies of deaf persons are subdivided on the following lines according to the person's present condition and needs rather than according to the origin of his disability.

Deaf without speech: Those who have no useful hearing and whose normal method of communicating is by signs, fingers, spelling or writing.

Deaf with speech: Those who (even with a hearing aid) have little or no useful hearing, but whose normal method of communicating is by speech and lip-reading.

The numbers of Cheshire deaf persons on the registers of the societies at 31st December, 1964, were as follows:—

| <i>Deaf without speech</i>      | <i>under<br/>16 yrs.</i> | <i>16 to<br/>64 yrs.</i> | <i>65 yrs.<br/>and over</i> | <i>Total</i> |
|---------------------------------|--------------------------|--------------------------|-----------------------------|--------------|
| Chester .....                   | 14                       | 90                       | 9                           | 113          |
| Liverpool .....                 | —                        | 13                       | 8                           | 21           |
| Manchester .....                | —                        | 115                      | 21                          | 136          |
| St. Vincent's (Liverpool) ..... | —                        | 2                        | —                           | 2            |
| Warrington .....                | —                        | 17                       | 5                           | 22           |
| <i>Deaf with Speech</i>         |                          |                          |                             |              |
| Chester .....                   | 6                        | 20                       | 3                           | 29           |
| Liverpool .....                 | —                        | 10                       | 7                           | 17           |
| Manchester .....                | —                        | 38                       | 9                           | 47           |
| St. Vincent's (Liverpool) ..... | —                        | 1                        | —                           | 1            |
| Warrington .....                | —                        | —                        | —                           | —            |
| <i>Total Deaf</i> .....         | 20                       | 306                      | 62                          | 388          |

#### 4. OTHER HANDICAPPED PERSONS

##### (a) General

The registers of handicapped persons other than the blind and deaf are kept by Divisional Medical Officers. They are limited to persons who wish to receive benefits under the approved scheme. General advice is given on overcoming their handicaps, and on how to obtain such help as is available, either under this scheme, the hospital, local authority, or other aspects of the National Health Service, and from the many voluntary societies concerned with handicapped persons. The names and addresses and particulars of all handicapped school leavers are sent to the Divisional Medical Officers for follow-up and such action as may be necessary.

One example of help under this scheme is adaptation of premises inside or outside, to help handicapped persons to overcome their difficulties. Assistance in handicrafts is given when possible, with the co-operation of voluntary bodies.

## (b) Statistics

The numbers of persons on the above registers were as follows at 31/12/64:—

| 31/12/64:— |                                                                                                                                                                  |          |     |         |      | No. on Register |     |       |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----|---------|------|-----------------|-----|-------|
| M of L     |                                                                                                                                                                  | Children |     | Aged 16 |      | Aged 65         |     |       |
| class.     | Definition                                                                                                                                                       | under 16 |     | — 64    |      | & over          |     | Total |
|            |                                                                                                                                                                  | M.       | F.  | M.      | F.   | M.              | F.  |       |
| A/E        | Amputation                                                                                                                                                       | 1        | 2   | 48      | 28   | 32              | 21  | 132   |
| F          | Arthritis and Rheumatism                                                                                                                                         | 2        | 1   | 38      | 159  | 41              | 193 | 434   |
| G          | Congenital malformations and deformities                                                                                                                         | 71       | 70  | 63      | 81   | 4               | 12  | 301   |
| H/L        | Diseases of the digestive and genito-urinary systems; of the heart or circulatory system; of the respiratory system (other than tuberculosis) and of the skin    | 20       | 29  | 109     | 128  | 55              | 145 | 486   |
| Q/T        | Injuries of the head, face, neck, thorax, abdomen, pelvis or trunk. Injuries or diseases (other than tuberculosis) of the upper and lower limbs and of the spine | 15       | 7   | 75      | 67   | 25              | 29  | 218   |
| V          | Organic nervous diseases—epilepsy, disseminated sclerosis, poliomyelitis, hemiplegia, sciatica, etc.                                                             | 98       | 72  | 259     | 306  | 39              | 60  | 834   |
| U/W        | Neuroses, psychoses and other nervous and mental disorders not included in V                                                                                     | 15       | 6   | 33      | 51   | 7               | 10  | 122   |
| X          | Tuberculosis (respiratory)                                                                                                                                       | 5        | 8   | 266     | 200  | 34              | 8   | 521   |
| Y          | Tuberculosis (non-respiratory)                                                                                                                                   | 9        | 4   | 43      | 45   | 3               | 7   | 111   |
| Z          | Diseases and injuries not specified above                                                                                                                        | 21       | 14  | 30      | 38   | 11              | 26  | 140   |
|            | Partially sighted                                                                                                                                                | 18       | 16  | 45      | 40   | 35              | 81  | 235   |
| Totals     |                                                                                                                                                                  | 275      | 229 | 1009    | 1143 | 286             | 592 | 3534  |

The Persons in the table above were distributed as follows in the County :—

| Division                   | Number on Register |                     |                        | Total |
|----------------------------|--------------------|---------------------|------------------------|-------|
|                            | Children under 16  | Aged 16 to 64 years | Aged 65 years and over |       |
| Altrincham                 | 20                 | 92                  | 31                     | 143   |
| Bebington                  | 6                  | 68                  | 13                     | 87    |
| Cheadle and Wilmslow       | 47                 | 137                 | 50                     | 234   |
| Crewe                      | 92                 | 161                 | 18                     | 271   |
| Deeside                    | 13                 | 312                 | 56                     | 381   |
| Hyde                       | 25                 | 65                  | 46                     | 136   |
| Macclesfield               | 87                 | 423                 | 153                    | 663   |
| Mid-Cheshire               | 31                 | 155                 | 61                     | 247   |
| Nantwich                   | 15                 | 139                 | 33                     | 187   |
| N.E. Cheshire              | 7                  | 109                 | 51                     | 167   |
| Runcorn                    | —                  | 38                  | 7                      | 45    |
| Sale and Lymm              | 15                 | 74                  | 32                     | 121   |
| S.E. Cheshire              | 62                 | 183                 | 91                     | 336   |
| S.W. Cheshire              | 11                 | 107                 | 8                      | 126   |
| Stalybridge and Dukinfield | 73                 | 89                  | 228                    | 390   |
| Totals                     | 504                | 2152                | 878                    | 3534  |

### **(c) Epileptics and Spastics**

The number of persons on the Registers is not necessarily the total number of persons so handicapped. In regard to the above two important classes, the following are estimated totals:—

|                       |     |  |
|-----------------------|-----|--|
| (a) Epileptics        |     |  |
| (i) Children under 16 | 182 |  |
| (ii) Adults           | 143 |  |
| (b) Spastics          |     |  |
| (i) Children under 16 | 248 |  |
| (ii) Adults           | 107 |  |

Care is taken to ensure that, so far as possible, epileptic and spastic persons receive necessary treatment, education and accommodation. Co-ordination is effected when necessary with the residential welfare and the hospital services.

### **(d) Alterations to Property**

During 1964 financial help was given towards the cost of adaptations inside or outside the homes of 110 handicapped persons to enable them to overcome their difficulties.

The types of work most frequently carried out were the provision of:—

- (a) Ramps to doorways
- (b) Pavement crossings and drives
- (c) Handrails inside and outside houses

Grants have been given towards the provision of a downstairs bathroom and the construction of a downstairs bedroom and toilet facilities.

### (e) Day Clubs and Centres for the handicapped

Clubs for handicapped persons are steadily growing in number and during 1964 a specially adapted vehicle was purchased for the conveyance of disabled persons and their wheelchairs to the clubs. At the clubs occupations of the homecraft type are taught and social activities enjoyed.

The Manchester Cripples' Aid Society holds weekly clubs at Dukinfield and Hyde and the W.V.S. holds an equally successful club at the Brookfield Clinic Centre, Cheadle.

Handicraft standards are, in the main, good and no great difficulty is experienced in selling finished articles. It is gratifying to note improvements in workmanship together with increasing confidence.

Socially, the clubs are a great success. Initially, in some instances, it was a triumph, for both the handicapped and the club organisers, to persuade some members to leave the sanctuary of their homes, but now the provision of the special vehicle has opened the door to much greater activity, and clubs have organised day outings and even holidays by the sea. One frequently hears from members expressions of the pleasure they derive from their increased social contact, their admiration for the unstinting efforts of the W.V.S., and it is pleasing to observe that the least talked about subjects are those concerned with suffering and disability.

There is a swimming club for handicapped persons holding weekly sessions at Crewe baths with a membership of 35, and also one in Macclesfield, which was formed and has been run voluntarily by Miss Urmson, the physiotherapist in the County Cerebral Palsy Team.

Details of the number of sessions held in 1964 and the work carried out by occupational therapists and handicraft instructors employed by the County Council, are given below.

| <i>Division</i>     | <i>Sessions</i> | <i>Number of<br/>persons<br/>instructed<br/>at Clubs</i> | <i>Attendances<br/>at Clubs</i> |
|---------------------|-----------------|----------------------------------------------------------|---------------------------------|
| Bebington .....     | 52              | 25                                                       | 1,198                           |
| Deeside .....       | 11              | 16                                                       | 135                             |
| Mid-Cheshire .....  | 3               | 19                                                       | 19                              |
| Nantwich .....      | 11              | 10                                                       | 106                             |
| N.E. Cheshire ..... | 10              | 24                                                       | 236                             |
| Runcorn .....       | 30              | 40                                                       | 260                             |
| S.W. Cheshire ..... | 17              | 16                                                       | 142                             |
|                     | <hr/> 134       | <hr/> 150                                                | <hr/> 2,096                     |

**(f) Occupational Homework**

The County Health Committee pays for an occupational therapist to work approximately half time in the Altrincham and Sale and Lymm divisions. A total of 24 cases received instruction during the year and 422 visits were paid. Knitting, crochet, embroidery, tapestry, marquetry, leather work and rug-making were the most frequent activities.

In the Nantwich, N.E. Cheshire and Runcorn division patients also received instructions at home from occupational therapists.

**(g) Cripples' Help Society, Manchester**

The area of the above Society extends over a large part of the County and in 1959 agreement was reached on the services which would be provided for handicapped persons by the Society and by the County Council in order to avoid overlapping.

Particulars of all handicapped persons are exchanged by the Society and the Divisional Medical Officers, provided the persons concerned do not object, and the following table shows the number of persons on the register of the Society in each of the Divisions at the end of 1964:—

|                      |     |                            |     |
|----------------------|-----|----------------------------|-----|
| Altrincham           | 86  | Nantwich                   | 5   |
| Cheadle and Wilmslow | 74  | North-East Cheshire        | 84  |
| Crewe                | 18  | Runcorn                    | 3   |
| Deeside              | 4   | Sale and Lymm              | 78  |
| Hyde                 | 84  | South-East Cheshire        | 12  |
| Macclesfield         | 56  | South West Cheshire        | 4   |
| Mid-Cheshire         | 29  | Stalybridge and Dukinfield | 114 |
| Total                | 651 |                            |     |

The County functions cover:—

- (a) general visitation by health visitors
- (b) provision of domestic helps when required
- (c) provision of night sitters-in in exceptional cases
- (d) payment for special laundering
- (e) adaptations to homes in order that handicapped persons may overcome their handicaps
- (f) provision of "aids"
- (g) in suitable cases, arrangements for convalescence as a means of obtaining rest and change of air if there is a "health" reason for this action
- (h) provision of nursing aids including, in addition to those items usually classed as normal nursing aids, special chairs for spastics, special beds, hoists, three-legged sticks, etc.

The Society:—

- (a) arranges for visitation
- (b) teaches handicrafts when necessary
- (c) arranges for payment to be made to handicapped persons for suitable articles made by them in connexion with handicraft training
- (d) provides special nourishment in appropriate cases
- (e) arranges holidays, convalescence and outings
- (f) provides necessitous disabled persons with clothing
- (g) provides Christmas parcels when required
- (h) lends, when appropriate, invalid chairs, walking aids, page-turning machines and other appliances

#### **(h) Car Badges for Severely Disabled Drivers**

To ease the difficulties of severely disabled drivers in finding suitable parking places, badges are issued to such drivers for display at the front and rear of their vehicles. While conferring no legal rights or privileges, the badges enable the drivers to be readily identified and assisted in parking, with discretion exercised in their favour wherever possible.

The County Health Committee decided that the issue of the badges should be delegated to the Divisional Health Committees subject to such issue being restricted to drivers whose disability was so severe as to render them able to walk only with difficulty.

In 1964, the divisions supplied 119 applicants with badges.

**(i) Meals on Wheels**

The following information has been supplied by W.V.S. County Office, indicating the scope of the work done in providing meals in the homes of old people during the quarter ended 31.12.64.

| <i>Meals served</i> |      | <i>Meals served</i> |        |
|---------------------|------|---------------------|--------|
| Alderley Edge       | 438  | Macclesfield        | 2363   |
| Alsager             | 521  | Marple              | 861    |
| Altrincham          | 1967 | Middlewich          | 610    |
| Barnton             | 925  | Nantwich            | 500    |
| Bebington           | 3704 | Neston              | 546    |
| Bollington          | 498  | Northwich           | 1608   |
| Bramhall            | 593  | Partington          | 707    |
| Bredbury & Romiley  | 1926 | Plumley & Pickmere  | 405    |
| Cheadle & Gatley    | 1134 | Poynton             | 985    |
| Chelford            | 198  | Rode Heath          | 650    |
| Christleton         | 467  | Runcorn             | 838    |
| Congleton           | 936  | Sale                | 1279   |
| Crewe               | 944  | Sandbach            | 648    |
| Disley              | 411  | Sandiway*           | 231    |
| Dukinfield          | 634  | Scholar Green       | 754    |
| Ellesmere Port      | 2657 | Shavington          | 464    |
| Farndon*            | 62   | Stalybridge         | 1374   |
| Frodsham            | 933  | Stockton Heath      | 1148   |
| Goostrey            | 608  | Upton               | 323    |
| Gt. Boughton        | 367  | Waverton            | 517    |
| Hale                | 1415 | Weaverham           | 713    |
| Haslington          | 408  | Whitegate           | 412    |
| Hazel Grove         | 1178 | Wilmslow            | 1521   |
| Holmes Chapel       | 626  | Winsford            | 647    |
| Hoylake             | 981  | Wirral              | 1481   |
| Hyde                | 3270 | Wistaston           | 435    |
| Kelsall             | 587  |                     |        |
| Knutsford           | 476  | Total               | 52,124 |
| Longdendale         | 445  |                     |        |
| Lymm                | 1170 |                     |        |

\*Started during the quarter

**(j) Homes for Old Persons and Disabled Persons**

The regulations for registration and inspection of voluntary homes for old people, etc., namely the National Assistance (Registration of Homes) Regulations, 1949, are administered by the County Health Department, and the position for the year ended 31st December, 1964, is shewn below:—

|                               | Homes for Old Persons |                 | Homes for Disabled Persons |                 |
|-------------------------------|-----------------------|-----------------|----------------------------|-----------------|
|                               | Number of             |                 | Number of                  |                 |
|                               | Homes                 | Places provided | Homes                      | Places provided |
| New Registrations, 1964       | 6                     | 38              | —                          | —               |
| Registrations cancelled, 1964 | —                     | —               | —                          | —               |
| Homes on Register, 31/12/1964 | 25                    | 450             | 5                          | 530             |

## **SECTION XII.-SANITARY ADMINISTRATION\***

### **A. FOOD AND DRUGS ACTS AND REGULATIONS THEREUNDER**

#### **1. MILK AND DAIRIES**

##### **(a) General**

The Department continued its work during the year in connection with the milk supply, as a contribution towards the aim of ensuring that all milk produced, processed and sold within the County reaches the consumer in a clean and wholesome condition and free from disease-producing organisms.

With this aim in view regular sampling was continued at all stages of milk production, processing and distribution for which the County Council is responsible. The frequency of sampling with regard to the various designations of milk and the type of dealer is based on experience gained during past years and gives maximum practical protection to the consumer.

The licensing of all milk dealers, including all processors and distributors, with the exception of Producer Retailers (who are licensed by the Ministry of Agriculture, Fisheries and Food) is carried out by the County Council in their "Food and Drugs" area. Thus the County Council are responsible for the licensing of a very large number of milk dealers throughout the County with the consequent inspections and sampling work involved.

The Milk (Special Designation) Regulations, 1963, came fully into operation on 1st October, 1964. These re-enacted with amendments The Milk (Special Designation) Regulations, 1960. The principal change is that "Untreated" replaces "Tuberculin Tested" as the special designation for raw milk. This has involved the re-licensing of a large number of milk dealers. The new Regulations also laid down that the words "Tuberculin Tested Milk (Pasteurised)" could not be used as an alternative to the words "Pasteurised Milk" after the 31st December, 1964. Both these changes made it necessary for the majority of the milk bottlers licensed by the County Council to amend the wording on foil bottle caps or milk cartons. In one case only was this resisted, but the problem was resolved by informal action. The other principal change was that the methylene blue test replaced the clot-on-boiling test as the test for milk to which a producer's licence relates, and was welcomed as it meant that the same test would now be used both by the Ministry of Agriculture and by ourselves.

Liaison between the County Council and the District Councils who are the Registration Authorities for distributors and dairies under the provisions laid down in the Milk and Dairies (General) Regulations 1959, was maintained, joint inspections being carried out where necessary, and appropriate action taken in regard to any contraventions of Milk and Dairies Regulations found.

\* This part of the report includes the work carried out by the County Health Inspector's Section.

District Councils are given the opportunity of making observations prior to any new licence being issued and copies of all relevant milk sample reports are sent weekly to the Medical Officer of Health concerned together with information of action taken regarding unsatisfactory samples when requested.

### **(b) Milk Production**

Producer licences are granted by the Minister of Agriculture, Fisheries and Food but a specific duty is laid upon County Councils by the Food and Drugs Act, 1955, Section 31 to administer provisions designed to prevent the sale of tuberculous milk and milk from cows suffering from any infection of the udder likely to convey disease.

The whole of Cheshire is subject to the operation of Specified Areas Orders, so that in the whole County only specially-designated milks may now be sold (*i.e.* Pasteurised, Sterilised and Untreated).

A Conference was held in 1960 with appropriate officers of the Ministry of Agriculture, Fisheries and Food, when it was agreed that the essential thing, so far as biological and cultural testing is concerned, is to try to ensure the safety of the public in the case of milk sold *raw* under the special designation "untreated". The other specially designated milks on sale are, of course, made safe from the point of view of pathogenic organisms by the pasteurisation and sterilisation processes which are under the licensing control of the County Health Department.

It was therefore agreed that all supplies of untreated milk sold raw to the public should be submitted to biological and cultural examinations to ensure that the organisms of tuberculosis and brucellosis are not present.

It is the aim of the Department to obtain bulk samples thrice yearly from all herds in the County from which milk is sold raw to the public. At the request of the Public Health Laboratory Service, which carries out the examinations, each bulk sample now contains the milk from not more than 10 cows. Raw milk coming from a producer from outside the County and not therefore covered by herd sampling is submitted for examination quarterly by means of a retail sample.

### **(1) Brucellosis**

In view of current interest and of the high priority that I feel this problem should be given at national level, I presented a special report on Brucellosis to the May, 1965, meeting of the County Health Committee. This Report is reproduced below.

### **"PROBLEMS ASSOCIATED WITH BRUCELLOSIS**

The County Medical Officer's Annual Report has contained reference to this disease of cattle and its possible spread to humans via the milk supply each year since 1960.

At the present time there is widespread interest in the disease on a national scale and the Diseases of Animals Acts Committee of the County Council has also expressed its interest and concern.

Accordingly this special report is presented to the County Health Committee at this time and it may perhaps be considered appropriate to recommend that the County Council should make representations on the subject to the Ministries concerned and/or the County Councils Association.

### **Brucellosis in man**

Brucellosis is a disease caused by a strain of bacillus named *Brucella* of which there are at least three human strains, *Brucella abortus*, *Brucella melitensis* and *Brucella suis*. *Brucella abortus* is the predominant strain in human cases in this country. This is also the same strain as is found in infected cattle. It can cause abortion in cattle and may be present in the milk.

Human brucellosis may be described as a septicaemia which, for all practical purposes, is contracted from animals either directly or indirectly. In the United Kingdom virtually the only source of infection is bovine. Reliable statistics of the incidence of human brucellosis in this country are not available as neither this disease, nor bovine contagious abortion, are notifiable. However, estimates of from 500 to 1,300 human cases per year have been made, of which probably 75% were caused by drinking infected cow's milk or cream, and the remainder, often farmers, agricultural workers or veterinary surgeons, by direct contact with infected animals (though many of these "occupational contacts" will also be consumers of raw milk, so that the exact method of infection is often impossible to determine). In this county, in order to gain as much evidence as possible of the incidence of human cases, a register of such cases was commenced in May 1961. As the disease is not notifiable, reliance for information has to be placed upon individual medical practitioners, divisional medical officers, hospitals and the public health laboratory service. It is considered that many more cases occur than are diagnosed (for reasons given below) and many cases are diagnosed which are not reported. So far 72\* cases have been reported by practitioners, of which only five cases could not be connected either with known consumption of raw milk or contact with cattle (since consumption of raw milk or cream on a single occasion can give rise to brucellosis, these five cases could well be accounted for by consumption of raw milk on holiday, visits to restaurants or friends, etc.).

There are few diseases with a greater variety of clinical manifestations than undulant fever, and for this reason it is very difficult to diagnose. Although mortality is low, it is nevertheless the cause of much individual misery and incapacity lasting over periods of months or even years.

\*At the time of writing this Annual Report (September 1965) this figure stands at 129, mainly as a result of inclusion of cases, previously recorded separately by one of the hospitals in the county.

The range of symptoms which may occur is very wide indeed, but if consumption of raw milk or milk products, or special exposure to infection because of occupation, coincide with such symptoms as an undulant temperature chart, heavy night sweats, the presence of high fever with comparatively little constitutional disturbance and continued fever in the absence of other clinical signs, then the acute form of the disease is strongly suggested. Chronic cases also occur which are more difficult to recognise.

Treatment of the disease is not easy, and very many drugs have been tried at some time or other. Antibiotics, with or without sulphonamides, now constitute the standard treatment for most cases, and in many instances are successful in shortening the course of the disease and reducing complications, though relapses are frequent.

Since human brucellosis in this country is practically always contracted from a bovine source, it is obvious that the best, if not the only practicable way of eliminating the disease in humans is the eradication of the disease in cattle, which would eliminate both milk-borne and contact infections.

Although human brucellosis is widespread throughout the world, it is said no longer to exist in countries like Denmark and Sweden where the disease in cattle has now been eradicated.

## **Brucellosis in cattle**

### **1. Nationally**

A survey carried out by the Ministry of Agriculture, Fisheries and Food in 1960 and 1961 and reported recently (Animal Disease Surveys—Report No. 4, "Brucellosis in the British Dairy Herd") was designed to provide estimates of the overall incidences of brucellosis in the dairy cattle of Britain.

The main analysis was based on a random sample of 2,262 dairy herds and as a result it was estimated that in the national dairy cow population of 3,184,000, 66,000 cows (2.07%) are infected with brucellosis. Of 98,600 dairy herds in the country, probably 25,000 to 30,000 herds are infected (25 to 30%).

As evidence of infection is often intermittent, an extension of the tests used, e.g. more frequent sampling, would no doubt have revealed more infected animals.

The survey report also estimates the annual national economic losses associated with Brucellosis to be 11,000 calves and  $3\frac{1}{2}$  million gallons of milk, the cost of vaccination with strain 19 (£215,000 in 1962), the losses consequent upon 6,000 retained placentas, and the cost of the culling of infected cows. This, of course, is an estimate of the loss to the farming community. To it must be added the cost of the human cases occurring each year. It is difficult to estimate the total cost to the community, but an estimate often quoted gives the annual loss as sixteen million pounds per annum.

## 2. In Cheshire

The total cow population is estimated at 122,840 contained in 4,335 dairy herds. If the national average of infection is applied to Cheshire 2,543 cows, and from 1,084 to 1,300 of the herds would be infected with brucellosis.

In Cheshire at the present time there are 319 herds from which milk is sold to the public in its raw state. These are either herds of producer-retailers or farm bottlers supplying other dairies, and a few whose raw milk is supplied in bulk to a dairy and there bottled raw. These herds vary in size from small herds of up to 10 cows (98 herds) to one herd with over 100 cows. It is estimated that in Cheshire the total number of cows involved in the 319 herds from which raw milk is sold is 8,750, and that the total gallonage of milk sold to the public in its raw state each day is about 10,700 gallons, estimated to be the milk supply of about 122,000 persons. This represents about 12.7% of the population of the administrative county. The national figure is said to be about 4%.

If the national averages quoted above were applied to the Cheshire "raw milk" herds, it means that of the 8,750 cows involved, about 175 cows would be expected to be infected, while of the 319 herds involved, 80-95 would be infected (see below for comparison with actual test results). Work on these herds commenced in 1960 (the total number has reduced somewhat since 1960) and we feel our technique has increased in efficiency during this period. Also, if our work is making any progress at all, one would expect that the amount of infection now present in the "raw milk" herds would be appreciably less than in the remaining dairy herds of the county.

The County Health Department in this field co-operates with the health departments of the county districts in Cheshire, and the work has been concentrated on the herds from which some or all of the milk is sold to the public in its raw state. No action is taken regarding farmers and their families and workers in the remaining herds who are themselves exposed to infection, unless a human case is actually reported, as it is felt that the resources available should be concentrated on protecting the public at large, and indeed in Cheshire this problem is so large that with the present resources it would be impossible to do more than is now being done.

The legal basis is Section 31 of the Food and Drugs Act, 1955 which lays a duty upon county councils to enforce the prohibition of the sale of milk from any cow suffering from any infection of the udder which is likely to convey disease. Under Regulation 20 to the Milk and Dairies (General) Regulations, 1959, a district medical officer of health has power to place restrictions on the sale of infected milk.

What we have found is that certain herds found to be infected in the early stages of the work were investigated and cleared of infected animals, and have so far remained clear. Others which were found

to be clear in the early stage, suddenly showed infection, in one or two instances to a very heavy extent, some herds have proved positive from time to time with periods of freedom in between, and other herds have never shown infection over the whole period of sampling. When sampling for brucellosis started in 1960, 7.6% of samples were found positive for brucella, this has been reduced to 6.1% in 1961, 5.2% in 1962, and 3.2% in 1963. The work carried out during 1964 can be summarised as follows:—

Samples collected and submitted for brucella examination:—

|                   |       |                                                                              |
|-------------------|-------|------------------------------------------------------------------------------|
| Schools           | 28    |                                                                              |
| Hospital farms    | 9     |                                                                              |
| Dealer samples    | 328   | (i.e. milk as retailed)                                                      |
| Farm bulk samples | 2,444 | (each producer is sampled thrice yearly, 1 sample for each 10 cows in herd). |
|                   | —     |                                                                              |
|                   | 2,809 |                                                                              |
|                   | —     |                                                                              |

Of these samples, 14 dealer samples and 87 farm samples were found to contain brucella organisms, a total of 101 samples, or 3.6% of all samples taken. These positive samples involved 56 different herds or 18% of the total herds, (compare the figure of 25% to 30% given as a result of the National Survey).

Some of the herds were positive on more than one occasion during the year. As a result of the above sampling, 65 herd investigations were carried out, 43 by the County Council, 6 by local authorities and 16 by private veterinary surgeons.

In the 43 investigations carried out by the County Council, 78 sets of individual cow samples were taken, involving 899 cows, the total number of samples was 1,150, and the number of positive animals detected was 112. In the investigations carried out by local authorities and private veterinary surgeons, 56 positive animals were found from 703 cows.

Thus the total number of brucella infected cows found during the year as a result of this work was 168 or 1.92% of the total cows in the "raw milk" herds. (Again compare this with the figure of 2.07% obtained as a result of the National Survey). These cows are of course removed from the "raw milk" herds, but they may legally be sold in the open market without disclosure of the fact of their infection.

Although these figures may appear to show a position better than the national average, it must be remembered that these are herds which have been subjected to sampling for several years, moreover the sampling cannot be claimed as exhaustive. The National Survey Report admitted that an extension of their testing, e.g. by more frequent sampling, would no doubt have revealed more infected animals, and we

must admit the same possibility with our sampling, though it would seem that our sampling and investigations are now reaching a fairly high degree of efficiency. Indeed, since 25th January 1965, we have been trying to give still better coverage with our sampling by submitting the monthly dealer raw milk samples which are collected from producer-retailers for cleanliness and keeping quality tests, also for brucella examination so far as laboratory facilities will permit (there is a limiting factor here).

Thus, it is hoped to submit a dealer sample each month in the intervening periods for each retail raw milk supply in addition to the four-monthly bulk herd samples.

This addition to the sampling programme is already giving an increase in the number of brucella positive samples obtained (although it is too soon to reach any definite conclusion) and at the time of writing no fewer than 26 herd investigations are proceeding simultaneously, a very heavy work load for the Health Inspector's section of the department. It must be pointed out that among the herds from which raw milk is sold, many are self-contained herds (probably 50% or more), a few are "flying herds" (*i.e.* operated by cattle dealers, or herds continually changing), and others fall between the two, *i.e.* they from time to time sell dry cows and buy replacements. This factor obviously greatly increases the danger of bringing in infected stock.

Summing up, one must conclude:—

- (1) That there is a fairly considerable amount of infection with brucellosis in the "raw milk" herds of Cheshire.
- (2) That in spite of intensive work on this problem during the last few years with a view to giving as much protection as possible to the public, one cannot feel satisfied that substantial progress is being made towards eliminating the disease from these herds. On the other hand, one cannot say what the level of infection would have been had no work been carried out; it is hoped that the amount of infection in these herds is being kept much below the general level and that some degree of protection is being given to the public.
- (3) It is difficult to see how any real progress will be made in the problem unless a national eradication policy is evolved for the whole of the national herd (with compensation to producers) as was the case with tuberculosis.

In this connection it is of interest to note that the Cheshire Branch of the Rural District Councils' Association has recently considered this problem, and has recommended to the National Body as follows:—

- (1) "That the Rural District Councils' Association be requested to make recommendations to the Ministry of Health and to the Ministry of Agriculture, Fisheries and Food, for the adoption of a plan for the eradication of Brucellosis in cattle, and that, as a part of such plan—

- (i) the vaccination of calves should be made compulsory.
  - (ii) a scheme of compulsory Brucella-free herds should be inaugurated with compensation for any losses sustained".
- (2) The Branch support the resolutions of the Amesbury and Macclesfield Rural District Councils "that Brucellosis in human beings (undulant fever) should be made a notifiable disease", but do not wish notification to delay any scheme for the eradication of Brucellosis in dairy herds.
- (3) The Association be requested to make representations to the respective Ministries that every step be taken to encourage, so far as is practicable, heat treatment of milk supplied to the public.

The most important of these recommendations is that concerned with eradication of brucella infection in cattle. Regarding the other issues:—

- (a) the vaccination of calves against brucella infection has been going on for some years on a voluntary basis, but although this reduces considerably the risk of abortions in cattle, it does not mean that a cow vaccinated as a calf may not give infected milk. Though no definite figure can be given, it is thought that about 65% of Cheshire farmers have their calves vaccinated.
- (b) if brucellosis in humans were made a notifiable disease, it might assist in assessing more accurately the incidence of the disease, as well as helping to some extent in the identification of infected herds, but diagnosis is very difficult and it is not thought that the picture shown by notification would be an accurate or reliable one. Although a disease entity, the manifestations of human brucellosis are variable.
- (c) heat treatment of milk ensures the freedom of the milk from all disease-bearing organisms, but it is difficult to ensure this in rural areas, and the farming community and other occupational contacts would still be exposed to infection. There would, no doubt, be considerable opposition to compulsory pasteurisation of all milk supplies from agricultural interests. The conquest of brucellosis can only be regarded as a problem of animal health, as was that of bovine tuberculosis.

It is understood that the Rural District Councils' Association is now to ask the Ministry of Health to receive a deputation on this subject, and that Cheshire will be represented on this deputation (the member concerned has been provided with information by this Department).

Finally one must record with appreciation the help given in this matter by the Ministry of Health Public Health Laboratories at Chester and Manchester, without whose ready co-operation in the examination of samples, the work could not be carried out, and also the continuous co-operation and assistance of the County District Medical

Officers of Health, Ministry Veterinary Surgeons and Public Health Inspectors throughout the county, with whom the work of brucellosis control is carried on as a joint operation.

I am greatly indebted to the work of the County Health Inspector in the compilation of this report."

As a result of the presentation of this special report, it was resolved to recommend to the County Council's Association that they should make representations to the Ministry of Health and the Ministry of Agriculture, Fisheries and Food, to take action for the eradication of brucellosis in cattle, and to support the representations in this connection which have been made by the Rural District Councils Association.

The administrative action which is taken when a sample of milk is found to contain brucella infection is as follows:—

Immediate notification is made to all interested parties including the producer and any other dealers handling the milk, the Divisional Veterinary Officer of the Ministry of Agriculture, Fisheries and Food, and the District Medical Officer of the districts concerned.

The District Medical Officer or his Public Health Inspector immediately visits the farm with a view to preventing infected milk being sold raw to the public. Provision is made in Regulation 20 of the Milk and Dairies (General) Regulations, 1959, for preventing the sale of infected milk.

Individual cow sampling is carried out in every case where Brucella infection is found in a herd. This sampling is carried out in the majority of cases by the County Milk Sampling Officers, the exception being those few producers who arrange for their own Veterinary Surgeon to carry it out, and an occasional case where the local authority carry out individual cow sampling.

## **(2) Tuberculosis**

No evidence of tuberculosis was found in the samples submitted for examination. It is the aim of the Department to ensure that at least one set of bulk samples from each "raw milk" herd is submitted for biological examination each year. This is considered still to be necessary even though the incidence of bovine tuberculosis has fallen to extremely low levels. There is the possibility of reduced resistance to the disease, and on rare occasions an animal may become infected. If such an animal became an "open" case, it could be a source of rapidly spreading disease in a period between successive tuberculin testing of the herd.

## **(3) Antibiotics in Milk**

The Report of the Milk Hygiene Sub-Committee of the Milk and Milk Products Technical Advisory Committee, issued in May 1963, referred to the widespread use of antibiotics in the treatment of mastitis and the possible public health hazard due to traces of antibiotics being present in milk.

The sale of such milk for human consumption is considered to be undesirable because of the possibility that it could have ill-effects on the health of a few people who may be, or who may become, particularly sensitive to antibiotics.

The Report made a number of recommendations including the following:—

- (a) manufacturers should be asked to provide formulations suitable for the treatment of the majority of cases of mastitis and having an excretion time of less than 48 hours
- (b) manufacturers should label their preparations to show the minimum length of time that milk from treated animals should be withheld
- (c) buyers should carry out periodic checks on incoming milk
- (d) the other Milk Marketing Boards should consider introducing a system of price penalties for milk found to contain antibiotics, on the line proposed by the Scottish Milk Marketing Board
- (e) that food and drugs authorities should be encouraged to sample and test ex-farm milk for the presence of antibiotics and to take appropriate action.

The larger and medium sized dairies did introduce periodic checks (normally monthly) on their incoming farm milk supplies. It was found that one of the tests in use was not satisfactory and in certain cases the testing was discontinued. These dairies are now equipping themselves to carry out the T.T.C. test and it is expected that a system of price penalties will later be introduced by the Milk Marketing Board.

The County Health Department is submitting samples collected from producer-retailers, farm bottlers, etc., (normally utilising the samples collected for brucella examination) to an examination for antibiotics, carried out by the Public Health Laboratory Service, Chester. This is limited to 25 samples per week. In the early part of 1965, this work had to be suspended owing to the pressure of work in the Public Health Laboratory but it is hoped to recommence again in the autumn.

The test being used by the Public Health Laboratory is a modified version of the T.T.C. test (using 2: 3: 5 Triphenyltetrazolium chloride), and samples are reported as unsatisfactory if they contain 0.05 international units or more of penicillin or equivalent, per millilitre.

During the year 1964, 758 samples were submitted to the Public Health Laboratory, Chester, for the antibiotics test, and 10 samples were reported as containing more than 0.05 i.u./m.l.

Action is taken on unsatisfactory samples as follows:—

- (1) Notifications to Milk Marketing Board, Divisional Veterinary Officer, Divisional Milk Officer, District Medical Officer and Public Health Inspector.

- (2) A letter to the producer calling attention to the Report on the subject, the producer's responsibilities, and the test result.
- (3) Resampling in the space of the next fortnight.

The Milk Marketing Board co-operate by sending one of their field officers to discuss the matter with the producer concerned.

Repeat samples have proved negative on the test.

The manufacturers of antibiotics have undertaken that all penicillin preparations for intramammary injection will be labelled with a withholding period assessed by means of the test used by the dairies.

### **(c) Processing**

The County Council continued its important function of licensing and supervising all milk pasteurising and sterilising plants within its "Food and Drugs" area.

At the beginning of 1964, sixteen pasteurising and four sterilising licences were in operation at seventeen different dairies within the administrative area. During the year two pasteurising dairies ceased to process milk. In one case the company had two processing dairies and as a matter of policy closed one for the purpose of pasteurising. In the other instance, the company which was of moderate size and with its own retailing organisation was taken over by one of the larger dairies. One new pasteurising licence was issued in the latter part of the year. This was to a small family concern who were producer-retailers, and who now, as a result of Brucella infection in their herd with three associated human cases, pasteurise most of their milk prior to retail sale. A new pasteurising licence was also issued to one of our dairymen who moved to new premises provided after long pressure from the Department in substitution for his previous very congested and unsuitable premises. The existing licence was, of course, cancelled. Thus at the end of the year the number of pasteurising licences was fifteen, and the number of sterilising licences four, in operation at sixteen different dairies. The licence holders were as follows:—

#### **(i) Pasteurising Licences, (High Temperature, short time plant.)**

Cooke Bros. (Tattenhall) Ltd., The Creamery, Tattenhall.

C.W.S. Ltd., The Creamery, High Town, Congleton.

Express Dairy (Northern) Ltd., Pool Bank Dairy, Tarvin.

Wm. Horner Creameries Ltd., The Creamery, Cuddington, Northwich.

J. D. Pickering, Rough Hill, Marlston-cum-Lache, Chester.

P. L. Rigby & Son, Mill Bank Dairy, Thelwall New Road, Grappenhall.

Runcorn & Widnes Co-operative Society Ltd., Perry Street, Runcorn.

United Co-operative Dairies Ltd., Dukinfield Road, Hyde.

United Dairies (Wholesale) Ltd., Calvey, Tarporley.

(ii) **Pasteurising Licences (Holder Plant)**

G. Bickerton, Mayfield Dairy, Moreton New Road, Congleton.  
C. A. Blackburn, Two Mile House Dairy, Wrexham Road, Chester  
H. Blake, Springwood Dairy, Goostrey.  
T. D. Jackson, 1, Cross Lane, Cledford, Middlewich.  
S. Morton & Son, Yew Tree Hall, High Legh, Knutsford.  
Taylor & Farbon, Hartford Green Dairy, Chester Road, Weaverham.

(iii) **Sterilising Licences**

C.W.S. Ltd., Knight Street Creamery, Windmill Street, Macclesfield.  
Wm. Horner Creameries Ltd., The Creamery, Cuddington, Northwich.  
United Co-operative Dairies Ltd., Dukinfield Road, Hyde.  
United Dairies (Wholesale) Ltd., Calveley, Tarporley.

It will be seen that a number of small family concerns in the County is still continuing with the processing of milk, but the tendency is showing itself for milk processing to become concentrated in larger undertakings. In Cheshire we still have all sizes of undertakings from the small family business pasteurising as little as 60 gallons of milk per day to several of the largest dairies in the country, one of these processing 40,000 gallons of milk per day. In the latter cases the milk is often transported many miles outside Cheshire. In fact it is estimated that almost half the milk processed in the licensed dairies is destined to be consumed outside the administrative county.

Although the milk processed in the licensed dairies may be subject to sampling and examination by any of the authorities in whose area it is sold we receive very few notifications of unsatisfactory samples, which confirms the excellent records obtained by our own sampling and inspections.

The Department maintains a close check on licensed dairies in two ways. Samples of processed milk are collected three times a week from all the plants and these are examined by tests which show whether the milk has been adequately heat-treated and also whether the milk is of a satisfactory standard of cleanliness. Washed bottles are also collected at intervals of three weeks, six washed bottles are submitted on each occasion from the pasteurising dairies and brought to the laboratory for examination, to disclose the efficiency of the bottle-washing equipment in the dairy. In addition to this the County Health Inspectors pay routine visits to the dairies from time to time and check, not only the processing but also the condition of the premises and the general maintenance of good standards of hygiene; this work is very necessary. It is found that a visit especially to the smaller dairies, will often forestall a sample failure by detecting an

incipient fault. But even in dairies where the sampling record is excellent and failures are exceedingly rare, it is found in many cases, unless the Inspector can pay a visit from time to time, the general hygienic standard of the premises tends to deteriorate. In other words, sampling of the milk by itself, however frequent, is not sufficient.

In the case of a milk sample failing to pass the prescribed test, and especially in the case of phosphatase failures, the County Health Inspector or his Deputy makes an immediate inspection to try to ascertain the cause of the failure. A phosphatase failure is regarded as a serious lapse on the part of the licence holder, but it seems impossible under present circumstances, completely to eliminate such failures. The majority of the failures occur at the smaller dairies where standards of equipment and supervision tend to be lower than at the large commercial dairies. The proportion of failures is, of course, very low when one considers the large number of samples taken.

From the figures given it will be seen that there were 22 phosphatase failures. (The phosphatase test is the official test for the correct heat-treatment of pasteurised milk). The total number of samples examined during the year by this test was 7,303. This represents a failure rate of 0.3% which is somewhat higher than in 1963, when we achieved an "all time low". It should be noted that three of the failures were from dairies outside the county and that 13 were from dairies which have now closed. The three failures of milk supplied by dairies in adjoining administrative areas were referred to the appropriate Licensing Authority for investigations. The remaining 19 were investigated by the County Health Inspector or his Deputy. These involved nine dairies, five having high-temperature short-time plant and four having holder plant.

The eight failures involving high-temperature short-time plant in fact, necessitated six investigations, because in two cases, two unsatisfactory samples were processed on the same day at the same dairy. The failures were found to be due to the following causes:—in two cases pasteurised milk was contaminated with raw milk; in two other cases faulty flow diversion valve; in one case the flow diversion valve had jammed on the day in question, and in the other instance the recording thermometer had become defective causing the flow diversion valve to be continually set in the forward position.

The 11 failures involving holder type plant, necessitated 10 investigations because in one case two unsatisfactory samples were processed by the same dairy on the same day. The failures were found to be due to the following causes:—in four instances milk had been heat-treated at below the prescribed temperature; in three cases pasteurised milk was contaminated with raw milk; in one instance the holding time was less than the necessary half-hour; in another, raw milk was bottled in error as pasteurised, and in one investigation no cause could be found for the failure.

In all these cases, severe warnings were given to the dairies concerned. The causes of the failures underline the need for regular routine inspections and plant checks of the processing dairies.

Only three of the 2,494 dairy samples failed the methylene blue test for cleanliness and keeping quality, again an excellent record. In one investigation it was found that trouble was being experienced with the incoming ex-farm milk, and that in fact several churns had been returned to the suppliers as being unsuitable for processing. In the two other instances no apparent cause could be found, and one assumes it was due to inadequate cleansing and sterilising of the plant, leading to post-pasteurisation contamination of the milk.

A total of 583 dairy samples of sterilised milk were submitted for examination. This figure has remained at a fairly constant level over a number of years. The statutory test for this designation of milk is the turbidity test which checks the correct heat-treatment of sterilised milk. None of the samples failed the turbidity test.

A total of 2,035 washed bottles were examined from pasteurising dairies. These are collected by the sampling officers in batches of six from each bottle washing machine at the processing dairies, at approximately three-weekly intervals. Of the 2,035 bottles examined, 1,663 were found to be satisfactory, 125 "fairly satisfactory" and 247 unsatisfactory. The number of washed bottles submitted for examination was a substantial increase on last year when 1,435 bottles were examined 1,153 of these were found to be satisfactory, 71 "fairly satisfactory" and 211 unsatisfactory. When compared, the results are somewhat similar. The reason for the increase in the number submitted is that sets of washed bottles are now taken from each bottle washing machine at each dairy. In cases where an unsatisfactory report was received, appropriate action was taken to correct inadequacies of plant or methods, and in several cases special investigations became necessary.

One of the offending dairies closed down in the early part of the year, another was experiencing "teething troubles" with a new washer that had recently been installed, and in another case, it was found that the heat-exchange system of heating the washer water was not functioning properly.

Maintenance of dairies and dairy equipment is a continuous routine procedure from the hourly changing of filter cloths to the regular re-decoration of premises. During the year work on the rebuilding and re-equipment of one of our larger dairies was completed, and replacement of plant was carried out in another. The work of the installation of additional processing plant and the provision of a completely new bottle washing and filling plant to meet current needs was carried out in co-operation with the County Health Inspector. Another development at the larger dairies was the installation of equipment to handle milk delivered in bulk road tanks, also for the cleansing and sterilising of the tankers after discharge of their loads.

#### (d) Distribution

At the beginning of the year 32 Dealers' (Tuberculin Tested) Licences were in operation authorising the holders to buy in bulk raw tuberculin-tested milk from other licensed premises and to bottle and sell it as such; and 1,287 Dealers' (Pre-packed Milk) Licences were in operation authorising the holders to buy in and sell Pre-packed milk from other licensed premises.

As mentioned earlier in this report The Milk (Special Designation) Regulations, 1963, which came fully into operation on 1st October, 1964, replaced the special designation "Tuberculin Tested" with the special designation "Untreated". This involved the Department in a considerable amount of re-licensing, in fact as a direct result of this, 30 Dealer's (Untreated) Licences and 182 Dealer's (Pre-packed Milk) Licences were re-issued.

During the year and prior to the re-licensing mentioned above, three Dealer's (Tuberculin Tested) Licences were cancelled and one was issued, and after re-licensing one new licence was issued. Thus at the end of the year, 31 Dealer's (Untreated) Licences were in operation. The situation with regard to the Dealer's (Pre-packed Milk) Licences excluding the 182 dealt with as a result of re-licensing is as follows:— 105 licences were cancelled, and 148 were issued. Thus at the end of the year, 1,330 Dealer's (Pre-packed Milk) Licences were in operation.

Systematic dealer sampling is arranged to give coverage to all the licensed dealers according to the types of milk being sold (one licence may authorise the sale of all three specially-designated milks). Retail sampling of producer-retailers is also carried out. Although producer-retailers operate under a Ministry licence, the Ministry sample only on the farm, and it is considered essential to sample these milks during course of retail delivery in order to give adequate protection to the consumers. Milk coming into the County for retail sale from surrounding areas is also subjected to sampling. Samples are also taken in course of delivery to schools and other County Council premises, and from a small number of Hospital Farms at the request of the Ministry of Health. It can thus be fairly claimed that all milk sold to the public in Cheshire is sampled and controlled by the County Health Department

The following table summarises the results of this sampling during 1964:

|                          | UNTREATED<br>RAW MILK      |                         |            | PASTEURISED<br>MILK        |                         |            |                        | STERILISE<br>MILK          |            |
|--------------------------|----------------------------|-------------------------|------------|----------------------------|-------------------------|------------|------------------------|----------------------------|------------|
|                          | Total<br>No. of<br>Samples | Meth.<br>Blue<br>Fails. | Voids      | Total<br>No. of<br>Samples | Meth.<br>Blue<br>Fails. | Voids      | Phos.<br>Fail-<br>ures | Total<br>No. of<br>Samples | Tun<br>Fai |
| Dealer Samples           | 2,956                      | 275                     | 107        | 3,078                      | 126                     | 141        | 9                      | 1,412                      | —          |
| School Samples           | 28                         | 4                       | 1          | 1,549                      | 33                      | 22         | 2                      | —                          | —          |
| C.C. Premises<br>Samples | —                          | —                       | —          | 181                        | 10                      | 1          | —                      | —                          | —          |
| Hospital Farms           | 14                         | —                       | —          | —                          | —                       | —          | —                      | —                          | —          |
| <b>TOTALS:</b>           | <b>2,998</b>               | <b>279</b>              | <b>108</b> | <b>4,808</b>               | <b>169</b>              | <b>164</b> | <b>11</b>              | <b>1,412</b>               | <b>—</b>   |

It will be seen from the above table that 9·3% of untreated samples and 3·3% of pasteurised milk samples taken in the course of retail delivery failed the methylene blue test (for cleanliness and keeping quality). These figures again leave it in no doubt where the problem lies. For this reason the Department continued its programme of increased raw milk sampling.

Raw milk leaves no margin of safety as far as keeping quality is concerned and must, particularly during warm weather, be produced under ideal conditions and retailed as soon as possible after production.

The need is very evident for a variation of the methylene blue test to be introduced for both pasteurised and raw milk which can be applied by both the dairy industry and the sampling authorities to samples other than dealer samples and which will simulate the conditions under which dealer sampling is carried out.

The percentage of methylene blue test failures on pasteurised milk (3·3) is greater than last year.

A breakdown of the pasteurised milk failure figures for dealer samples indicates that 61 were processed and bottled in dairies licensed by Cheshire County Council, the remaining 65 were processed and bottled outside the Administrative County. An investigation at one processing dairy revealed some delay between bottling and retail sale. This was due to transport difficulties from the processing dairy to the retailer and these have now been resolved. Two other County dairies with poor records have now closed. Other investigations were carried out at several distributors' premises and the main reason for the failures was found to be the carrying over of milk from one day to the next. Particularly during the summer months this milk will not satisfy the methylene blue test. Improvements were also effected in storage facilities at dealer's premises, in fact one large processor has provided two milk depots with cold storage facilities for the use of milk dealers which he supplies in those areas.

The percentage of methylene blue test failures for untreated milk (9·3) is slightly higher than last year, when 9·17% failed.

Procedure in the event of a methylene blue test failure on a sample of raw milk is this: the producer-retailer, or the dealer, wholesaler if any, and producer, also the Divisional Milk Officer of the Ministry of Agriculture, Fisheries and Food (who is responsible for clean milk production on farms), are notified. A repeat sample is taken two weeks later, and should this fail, all interested parties are again notified and attention requested. If investigation and advice by the Ministry of Agriculture, Fisheries and Food is indicated, the Divisional Milk Officer is requested to carry it out. If the sample is sold by virtue of a County Council licence the failures are investigated by the County Health Inspectors.

The procedure for dealing with methylene blue test failures on samples of pasteurised milk differs only in the persons notified. The dealer and processor are informed. Failures on repeat samples of pasteurised milk are comparatively rare. When they do occur they are investigated by the County Health Inspector or his Deputy.

In the majority of cases the initial informal action had the desired effect, the repeat samples proving satisfactory.

The earlier problems with milk vending machines have now been resolved. The dealers operating these machines now realise that regular servicing is essential and that milk cannot be left in the machines longer than two days if the milk is to satisfy the methylene blue test.

Fifteen of the processing dairies whose milk is retailed within Cheshire include a system of coding on the foil caps of their bottles. This is noted by the sampling officer on his report. Should the sample fail, the age of the milk can be found. This greatly assists in finding the possible cause of the failure and in preventing similar troubles in the future; and it would greatly assist the work of the Department if all milk on retail sale could be similarly coded so that the day of processing or production and bottling could be readily checked.

In no case during the year was it considered necessary to institute statutory proceedings with a view to suspending or revoking a Dealer's Licence.

Washed bottles from Dealers' (Untreated) Licensed premises were collected by the sampling officers in the same way as from the pasteurising dairies. A total of 389 washed bottles were submitted for rinse examination, 361 were satisfactory, nine were fairly satisfactory and 19 were unsatisfactory. Advice was given to the dairyman where necessary, resulting in improved bottle-washing techniques and satisfactory results on re-sampling. These figures are an improvement on the previous year.

### **(e) Milk in Schools Scheme**

All milk supplies under this scheme are subject to the approval of the County Medical Officer, and the County Health Department supervises all supplies by means of systematic sampling, and by routine inspections of dairies within their jurisdiction from which school milk supplies emanate.

Any new supply proposed for any particular school is first referred by the Director of Education to the Health Department for approval.

So far as the approval of particular sources is concerned, a suitable supply of pasteurised milk is obtained wherever possible. If this is not available, a supply of "Untreated" (raw) milk has so far been accepted.

As will be seen from the table at the end of this section, only two of the 674 schools in the County were being supplied with Untreated milk. There are two isolated schools involving 45 pupils. It appears that under present circumstances and owing to the rural nature of these two schools, a supply of Untreated milk will have to be accepted for the present.

No school in the County was without a supply of liquid milk at any time during the year.

During 1964, sampling of all school milk supplies throughout the County continued, all samples being collected in the course of retail delivery to the schools themselves. A total of 1,628 samples was collected, as compared with 1,592 in 1963. All the schools in the administrative county are sampled by the County Health Department Milk Sampling Officers with the exception of the 31 schools in the area of Crewe Borough Council. Here the Borough Health Department carries out regular school milk sampling by arrangement with the County Health Department and notifies all results.

Of the 1,549 samples of pasteurised milk collected by the County Health Department 33 samples (2.1%) failed the methylene blue test (for cleanliness and keeping quality) and two samples failed the phosphatase test (for adequate pasteurisation).

Immediate action in the case of sample failures is taken by the County Health Inspector.

The 33 methylene blue test failures was a slight increase on the 1963 figure when 27 samples failed. Thus the generally improved level since 1961 has been maintained. There is little doubt that this improvement in the hygienic quality of the milk is due to the constant surveillance of the Department.

Appropriate action was taken in the case of all the methylene blue failures and repeat samples were taken to ensure that a satisfactory standard was attained. 21 of the failures occurred on samples obtained from various dealers but processed and bottled by one dairy company. An investigation revealed that owing to the time of bottling of school milk and to the system of delivery from the processing dairy to the retailers it was not possible for the milk to reach the schools the day after processing. As a result of talks between the County Health Inspector and the processing dairy this problem has been resolved and the milk now reaches the schools the day after processing and bottling.

The two phosphatase test failures occurred on samples obtained on the same day from different schools but on milk processed by the same dairy. These were immediately investigated at the dairy where it was found that on the day when this milk was processed the flow diversion valve on the pasteurising plant had jammed and had to be operated manually. Under-pasteurised milk could, under these circumstances, have passed through the plant. This was an isolated incident at the dairy and no further trouble has been experienced.

One of the 51 samples of pasteurised milk taken by the Crewe Borough Council failed the methylene blue test, but a repeat sample taken shortly afterwards proved satisfactory.

In addition, 28 samples of Untreated (raw) milk were collected. Of these, four samples failed the methylene blue test for cleanliness and keeping quality. These sample failures were immediately notified to the Ministry of Agriculture, Fisheries and Food which is responsible for clean milk production on the farms, with a request for appropriate action. These two schools which have a supply of "Untreated" milk are, of course, in a very isolated area, where no pasteurised milk is available.

In addition to the examination quoted above, these Untreated supplies are given special attention by way of cultural and biological examinations in view of the fact that they *are* raw milks.

The 28 school samples and also six sets of herd samples involving 14 bulk milk samples from the two herds concerned were submitted for these examinations during 1964. In no case were the organisms of tuberculosis or brucellosis isolated.

The efficiency of the washing of school milk bottles at the dairies licensed by the County Council was checked by the collection of 414 washed school milk bottles from these dairies when the sampling officers were visiting for the purposes of other sampling under the Milk and Dairies Regulations. On the colony count (a test for the bacteriological cleanliness of the bottle) 345 were found to be satisfactory, 34 fairly satisfactory and 35 unsatisfactory. These figures are somewhat the same as last year, when of the 379 bottles submitted 316 were satisfactory, 26 fairly satisfactory and 37 unsatisfactory. These examinations showed that bottle-washing at one particular dairy was, on school milk bottles, very much below standard. The unsatisfactory reports occurred at a time when experiments were being carried out on the use of a new liquid detergent. Discussions took place at the dairy where it was found that the dairy laboratory staff were keeping a close watch on the situation. Following these discussions and the introduction of an improved system of sealing the washed bottles the difficulties appear to have been resolved.

During the year a pilot scheme was carried out for supplying a limited number of schools with milk packed in the tetrahedron type of carton. This, from a public health angle, proved highly satisfactory, all samples passing the statutory tests. At the end of the year a questionnaire circulated by the Director of Education was completed by the headmaster of each school. From an analysis of this return it was decided by the County Education Committee that cartons of this shape were not suitable. This proved a great disappointment to the dairy management concerned who had spent a great deal of time in attempting to popularise this form of carton, which is being supplied to a large number of schools in the areas of adjacent education authorities. At the time of writing this report milk in a new rectangular-shaped carton

is being supplied to schools in two of the divisions in the County. This experiment is being watched very closely and it appears that this type of carton is acceptable. Cartoned milk does, of course, resolve many of the difficulties experienced with the glass bottle, particularly from dirty, cracked or broken bottles and foreign bodies in the milk. Also the inherent danger of having glass receptacles on school premises is removed.

It is thus seen that a considerable amount of work is carried out to try to ensure that each day, while the schools are open, the whole of the 122,300 or so pupils who take school milk receive a food which is clean and free from all pathogenic organisms and is delivered in clean undamaged containers.

Occasional complaints do arise regarding dirty bottles, cracked or broken bottles, foreign bodies in the milk (including, sometimes, glass splinters), dirty condition of crates and unsatisfactory service. Cases of foreign bodies in the milk are dealt with by the Weights and Measures Department, which investigates and deals with the matters appropriately, if necessary instituting proceedings. The remaining matters are dealt with by the County Health Inspector, in some cases in co-operation with the local health departments.

In almost all instances, the bottles are satisfactorily dealt with at the schools, *i.e.* the bottles are emptied completely, caps and straws removed and the bottles placed for collection the next day. Under these circumstances, and even though no rinsing of school milk bottles is carried out at the schools, the dairies should have no difficulty in seeing that all bottles are adequately cleansed before re-filling, thus complying with their legal responsibilities. In recent years, complaints of misuse of school milk bottles on the school premises have become extremely rare.

Tables are given below showing the sampling which was carried out during 1964 and the results of such sampling, also the position regarding school milk supplies at the end of the year.

#### SCHOOL MILK SAMPLES AND EXAMINATIONS, 1964.

|             | Total<br>Samples<br>Collected | Phosphatase<br>Test |        | Methylene Blue<br>Test* |        |
|-------------|-------------------------------|---------------------|--------|-------------------------|--------|
|             |                               | Passed              | Failed | Passed                  | Failed |
| Pasteurised | 1600                          | 1598                | 2      | 1544                    | 34     |
| Untreated   | 28                            | —                   | —      | 23                      | 4      |
| TOTALS      | 1628                          | 1598                | 2      | 1567                    | 38     |

\*The Methylene Blue test was void in 23 cases owing to high atmospheric shade temperature.

At the end of 1964, the position in the county regarding school milk supplies could be summarised as follows:—

| Type of Milk    | Schools sampled by Cheshire C.C.   |                         | Schools sampled by Crewe M.B.C.    |                         | No. of Children supplied |               |
|-----------------|------------------------------------|-------------------------|------------------------------------|-------------------------|--------------------------|---------------|
|                 | No. of different suppliers of milk | No. of schools supplied | No. of different suppliers of milk | No. of schools supplied | Total                    | As % of Total |
| Pasteurised     | 63                                 | 641*                    | 1                                  | 31                      | 122,260                  | 99.96         |
| Untreated (raw) | 2                                  | 2                       | —                                  | —                       | 45                       | 0.04          |
| <b>TOTALS:</b>  | 65                                 | 643                     | 1                                  | 31                      | 122,305                  | —             |

† Figures obtained from a census taken on a selected day in Sept., 1964.

\* Includes 94 non-maintained Schools.

(The milk in Schools Scheme has applied to non-maintained schools since 1st September, 1956, and all children attending both maintained and non-maintained Schools are entitled to one-third of a pint of milk free daily.)

#### (f) Public Health Laboratory Service

All milk and associated examinations are now carried out on behalf of the County Council by the Public Health Laboratory Service of the Ministry of Health. The Chester Laboratory is used for samples from all parts of Cheshire except the north-east, samples from this area being dealt with by the Laboratory at Withington Hospital, Manchester.

Statistics 1964

(1) Analysis of Milk Samples collected during 1964:—

|                 | RAW (TUBERCULIN TESTED) MILK<br>(UNTREATED) |   |                |                  |       | PASTEURISED MILK |                |      |                     |       | STERILISED MILK   |      |      |
|-----------------|---------------------------------------------|---|----------------|------------------|-------|------------------|----------------|------|---------------------|-------|-------------------|------|------|
|                 | Biological<br>and Cultural                  |   | Methylene Blue |                  |       | Total            | Methylene Blue |      | Phosphatase<br>Test | Total | Turbidity<br>Test |      |      |
|                 |                                             |   | T.B.<br>Pos.   | Brucella<br>Pos. | Total |                  | Sat.           | Fail |                     |       |                   |      | Void |
|                 | Total                                       | — | —              | —                | —     | —                | —              | —    | —                   | —     | —                 | —    | —    |
| Dairy Samples   | —                                           | — | —              | —                | —     | 2494             | 2479           | 3    | 12                  | 2483  | 11                | 583  | —    |
| School Samples  | 28                                          | — | —              | —                | 28    | 1549             | 1494           | 33   | 22                  | 1547  | 2                 | —    | —    |
| County Premises | —                                           | — | —              | —                | —     | 181              | 170            | 10   | 1                   | 181   | —                 | —    | —    |
| Hospital Farms  | 9                                           | — | —              | —                | 14    | 1                | 1              | —    | —                   | 1     | —                 | —    | —    |
| Dealer Samples  | 328                                         | — | 14             | 14               | 2956  | 3165             | 2898           | 126  | 141                 | 3069  | 9                 | 1412 | —    |
| Farm Samples    | 2444                                        | — | 87             | 87               | —     | —                | —              | —    | —                   | —     | —                 | —    | —    |
| Individual Cow  | 1150                                        | — | 112            | 112              | —     | —                | —              | —    | —                   | —     | —                 | —    | —    |
| TOTALS:         | 3959                                        | — | 213            | 279              | 2998  | 7390             | 7042           | 172  | 176                 | 7281  | 22                | 1995 | —    |

**(2) Results of Bottle Examinations:—**

|                            | Satisfactory | Fairly Satisfactory | Un-satisfactory | Total        |
|----------------------------|--------------|---------------------|-----------------|--------------|
| Pasteurising Dairies       | 1,663        | 125                 | 247             | 2,035        |
| Untreated Bottling Dairies | 361          | 9                   | 19              | 389          |
| <b>TOTALS:</b>             | <b>2,024</b> | <b>134</b>          | <b>266</b>      | <b>2,424</b> |

**(3) Summary of all Samples collected during 1964:—**

|                                                                                               |               |
|-----------------------------------------------------------------------------------------------|---------------|
| From Milk Pasteurising and Sterilising Establishments                                         | 3,077         |
| In course of delivery to Schools .....                                                        | 1,577         |
| In course of delivery to other County establishments .....                                    | 181           |
| From dealers, including producer-retailers and milk vending machines .....                    | 7,446         |
| From Hospital Farms (for Ministry of Health) .....                                            | 14            |
| From Farms, including individual cow samples (for biological and cultural examinations) ..... | 3,594         |
| <b>Total Milk Samples collected .....</b>                                                     | <b>15,889</b> |
| <b>Washed bottles submitted for examination .....</b>                                         | <b>2,424</b>  |
| <b>Total specimens submitted</b>                                                              | <b>18,313</b> |

## 2. FOOD AND DRUGS ACT

The Chief Inspector of Weights and Measures (Mr. Howard Hughes) reports as follows on the work of his Department in so far as it relates to the administration to those provisions of the Food and Drugs Act, 1955, which are designed to prevent the sale of adulterated and non-standard food and drugs.

The County Council is the Food and Drugs Authority for the whole of the Administrative County except for the Municipal Boroughs of Crewe, Sale, Bebington, Altrincham, Ellesmere Port, and the Urban District of Cheadle and Gatley. Samples of foods and drugs of many kinds are obtained for analysis at the rate of approximately 4 per 1,000 of the population and this, to some extent, prevents the possible sale of adulterated or non-standard food or drugs to the public.

During the year ended the 31st December, 1964, 2,692 samples of food and drugs were submitted to the County Public Analyst (J. G. Sherratt, Esq., B.Sc., F.R.I.C.) for examination and report.

The following list sets out details showing a variety of articles obtained with milk samples taking predominance:—

| <i>Article</i>         | <i>Total<br/>Analysed</i> | <i>Samples certified as<br/>adulterated or otherwise<br/>not in order</i> |
|------------------------|---------------------------|---------------------------------------------------------------------------|
| Aspirin Tablets        | 5                         | 1                                                                         |
| Beef—Corned            | 7                         | 5                                                                         |
| Bilberries—Unsweetened | 2                         | 1                                                                         |
| Bread                  | 14                        | 11                                                                        |
| Bread—Milk             | 4                         | 3                                                                         |
| Butter                 | 17                        | 5                                                                         |
| Cheese—Processed       | 1                         | 1                                                                         |
| Cornish Pasty          | 3                         | 2                                                                         |
| Currants—Dried         | 1                         | 1                                                                         |
| Gateau—Pineapple       | 1                         | 1                                                                         |
| Ginger Ale             | 1                         | 1                                                                         |
| Iced Cake              | 1                         | 1                                                                         |
| Ice Cream—Ready-Mix    | 1                         | 1                                                                         |
| Ice Lollies            | 22                        | 4                                                                         |
| Jam                    | 18                        | 1                                                                         |
| Jelly—Table            | 8                         | 1                                                                         |
| Lard                   | 14                        | 1                                                                         |
| Lemon Drink            | 1                         | 1                                                                         |
| Milk                   | 1,630                     | 76                                                                        |
| Pie—Meat               | 3                         | 2                                                                         |
| Pie—Meat and Potato    | 2                         | 1                                                                         |
| Pie—Pork               | 1                         | 1                                                                         |

| <i>Article</i>                                                   | <i>Total<br/>Analysed</i> | <i>Samples certified as<br/>adulterated or otherwise<br/>not in order</i> |
|------------------------------------------------------------------|---------------------------|---------------------------------------------------------------------------|
| Pineapple—Tinned                                                 | 1                         | 1                                                                         |
| Plums—Golden Tinned                                              | 1                         | 1                                                                         |
| Prunes                                                           | 3                         | 2                                                                         |
| Sausage—Pork                                                     | 47                        | 9                                                                         |
| Spaghetti                                                        | 1                         | 1                                                                         |
| Steak—Casserole Tinned                                           | 3                         | 2                                                                         |
| Suet—Shredded Beef                                               | 14                        | 2                                                                         |
| Sulphur Tablets                                                  | 3                         | 1                                                                         |
| Treacle Toffee                                                   | 1                         | 1                                                                         |
| Walnut Kernels                                                   | 2                         | 1                                                                         |
| Whisky                                                           | 28                        | 1                                                                         |
| Zinc Ointment                                                    | 4                         | 2                                                                         |
| Fresh Fruit and Vegetables                                       | 155                       | —                                                                         |
| B.P. Official preparations, simple<br>household medicaments, etc | 175                       | —                                                                         |
| Miscellaneous groceries and<br>unclassified articles             | 497                       | —                                                                         |
|                                                                  | <hr/> 2,692 <hr/>         | <hr/> 146 <hr/>                                                           |

#### (a) Milk

From an examination of the above table it will be seen that the sampling of milk, which is so prone to mishandling before sale, had the greater share of attention. Of 1,630 samples obtained 76 were reported by the Public Analyst as unsatisfactory although it is pointed out that 37 or about half of these samples were slightly deficient in solids-not-fat due to some abnormality of the cows.

Fifteen of the samples showed a deficiency in fat varying from 2.5% to 26.5% and extraneous water was present in 14 samples in amounts of 1.8% to 11.5% of which 13 samples were obtained from one farmer. Legal proceedings were taken against the two farmers responsible for the sale of this adulterated milk, particulars of which are referred to in the table of prosecutions.

The presence of foreign matter in milk has become a regular complaint and the discovery of fungus, insects, grit, cement, slugs, etc., shows negligence in handling and the cleansing of bottles. The foreign matter was so objectionable in some cases that offenders were prosecuted and heavily fined.

From the Analyst's report concerning these samples it is clear that the complaints made by householders were justified in that some of the articles submitted were of unsatisfactory quality or condition.

The sampling and testing of farm milk for the presence of antibiotics has now become a routine matter and of 348 samples examined a positive reaction was indicated in only 14 cases but none of these were of any serious extent.

## b) Articles other than Milk

One matter which appears to be of considerable concern to the public is the possible contamination of food for human consumption by chemical additives. The economic advantages that can be derived from the use of chemical sprays in agriculture and from the addition of various synthetic products to manufactured foods are great. Nevertheless, an uneasy public would, no doubt, prefer as far as possible that food should be grown and marketed in its natural state.

The County Council takes pride in the fact that they were pioneers in the experimental examination of fresh fruits and vegetables for the presence of pesticide contamination. In just under four years 402 samples were obtained in the County but only two definitely contained chemical residues of a toxic nature, i.e., D.D.T., in a sample of tomatoes and B.H.C. in a sample of lettuce.

In addition, 38 samples of perry and cider were tested for lead and arsenic since lead arsenate is commonly used on apples and pears. From time to time samples of fish were obtained from retail shops in order to check whether the fish had been contaminated with fly sprays. No trace of any residual spray was detected in any of these samples.

The results so far obtained suggest that although the possibility of spray contamination of foods cannot be disregarded the more alarmist views that are expressed from time to time are not confirmed.

In the field of drug sampling a rather higher number of samples had been submitted for analysis. These included older types of synthetic drugs, the latter being mainly in tablet form. Although 168 samples of drugs were analysed, many of which are comparatively new in medicine, it is satisfactory to note that except for three commoner drugs the rest of the samples conformed to official requirements, or in the case of proprietary medicines to the manufacturers' specifications in respect of condition, weight, and chemical composition.

In regard to non-standard samples other than milk, where infringements were not of a serious nature the attention of the seller or manufacturer was called to the Public Analyst's comments and cautionary letters were forwarded as required. In a few cases however, legal proceedings were necessary and details of these together with the action taken in regard to other non-standard samples are shown below:—

- 1 **Bread.** Containing soiled dough and string. Bakers fined £13 5s 0d. including costs.
- 2 **Bread.** Containing oil and iron compounds. Bakers cautioned.
- 3 **Bread.** Containing oil and iron compounds. Bakers fined £18 5s. 0d. including costs.
- 4 **Corned Beef.** Containing mat of woollen fibres. Importers fined £31 8s. 0d., including costs.
- 5 **Corned Beef.** Containing fragments of a fly. Absolute discharge on payment of £9 4s. 0d. costs.

- 6 **Casserole Steak.** 33·3% deficient in meat. Sellers cautioned.
- 7 **Casserole Steak.** 28·7% deficient in meat. Sellers cautioned.
- 8 **Shredded Beef Suet.** 3·6% deficient in beef fat. Manufacturer cautioned.
- 9 **Shredded Beef Suet.** 2·4% deficient in beef fat. Manufacturer cautioned.
- 10 **Meat Pie.** Grossly contaminated with mould. Seller fined £8 8s. 0d. including costs.
- 11 **Cornish Pasty.** Containing part of a cigarette. Bakers fined £22 1s. 0d. including costs.
- 12 **Pork Sausage.** Containing 180 p.p.m. undeclared SO<sub>2</sub> preservative. Sellers cautioned.
- 13 **Butter.** Containing piece of wood. Packers fined £27 15s. 0d. including costs.
- 14 **Table Jelly.** Incorrectly labelled. Manufacturers cautioned.
- 15 **Corned Beef.** Containing woollen fibres. Importers cautioned.
- 16 **Bread.** Containing soiled dough. Bakers fined £28 18s. 0d., including costs.
- 17 **Sulphur Tablets.** Soiled and dirty. Sellers cautioned.
- 18 **Butter.** Rancid. Sellers cautioned.
- 19 **Butter.** Rancid. Sellers cautioned.
- 20 **Bilberries.** Unsweetened diluted with 15% extraneous water. Canners cautioned.
- 21 **Ready-Mix Ice Cream.** Non-milk fat not declared. Manufacturer cautioned.
- 22 **Whisky.** Containing 3·8% extraneous water, Seller fined £18 2s. 0d. including costs.
- 23 **Jam.** Containing beetle. Importers fined £23 18s. 0d., including costs.
- 24 **Iced Cake.** Containing wood shaving. Bakers cautioned.
- 25 **Pork Sausage.** 15·4% deficient in meat. Seller fined £13 18s. 0d. including costs.
- 26 **Pork Sausage.** Containing 190 p.p.m. of undeclared SO<sub>2</sub> preservative. Seller cautioned.
- 27 **Pork Sausage.** Containing 250 p.p.m. of undeclared SO<sub>2</sub> preservative. Seller cautioned.
- 28 **Pork Sausage.** 17% deficient in meat. Seller fined £15 18s. 6d. including costs.
- 29 **Pork Sausage.** Containing only 57% of meat. Seller fined £14 3s. 0d. including costs.

- 0 **Pork Sausage.** With SO<sub>2</sub> preservative declared but not present. Seller cautioned.
- 1 **Zinc Ointment.** Deficient in zinc oxide. See formal sample 32.
- 2 **Zinc Ointment.** Deficient in zinc oxide. Manufacturers fined £18 2s. 0d., including costs.
- 3 **Bread.** Contaminated with brown stains. Bakers cautioned.
- 4 **Bread.** Containing dirt and parts of a fly. Bakers fined £18 2s. 0d. including costs.
- 5 **Milk Bread.** 50% deficient in non-fatty milk solids. See formal sample 36.
- 6 **Milk Bread.** 66·6% deficient in non-fatty milk solids. Bakers fined £59 3s. 0d., including costs.
- 7 **Iced Lolly.** Devoid of orange. Manufacturers cautioned.
- 8 **Lemon Drink.** 20% deficient in lemon juice. Manufacturers cautioned.
- 9 **Butter.** Containing iron rust. Packers fined £14 3s. 0d., including costs.
- 0 **Corned Beef.** Containing pieces of cotton fabric. Importers fined £19 3s. 0d., including costs.
- 1 **Iced Lolly.** Incorrectly labelled. Manufacturers cautioned.
- 2 **Lard.** Containing piece of glass. Packers fined £34 8s. 0d., including costs.
- 3 **Meat Pie.** Contaminated with mould. Seller fined £26 8s. 0d., including costs.
- 4 **Pineapple Gateau.** Containing decomposed fat. Seller fined £12 1s. 0d., including costs.
- 5 **Pork Sausage.** Containing 200 p.p.m. undeclared SO<sub>2</sub> preservative. Seller cautioned.
- 6 **Pork Sausage.** Containing 200 p.p.m. undeclared S.O.<sub>2</sub> preservative. Seller cautioned.
- 7 **Prunes.** Containing 100 p.p.m. unpermitted sorbic acid preservative. Importers cautioned.
- 8 **Prunes.** Containing 190 p.p.m. unpermitted sorbic acid preservative. Importers cautioned.
- 9 **Spaghetti.** Containing live weevils. Importers fined £13 18s. 0d., including costs.
- 0 **Processed Cheese.** Containing vegetable fibres. Manufacturers cautioned.
- 1 **Ginger Ale.** Grossly contaminated with mould. Brewery fined £42 7s. 0d., including costs.
- 2 **Aspirin Tablets.** Containing an excess of salicylic acid. Still under investigation.

- 53 **Treacle Toffee.** With only 0.2% butter fat. Manufacturers cautioned.
- 54 **Tinned Plums.** Containing blue bottle. Importers fined £19 3s. 0d. including costs.
- 55 **Butter.** Containing an earwig. Sellers cautioned.
- 56 **Corned Beef.** Containing 1% iron (Fe). Importers cautioned.
- 57 **Bread.** Containing stale dough. Sellers cautioned.
- 58 **Bread.** Containing a beetle. Bakers fined £33 18s. 0d., including costs.
- 59 **Bread.** Containing metal particles. Bakers fined £32 1s. 0d., including costs.
- 60 **Bread.** Containing oil and dirt. Sellers fined £13 18s. 0d., including costs.
- 61 **Milk Bread.** Contained only 1.5% whole milk solids. Shop manager fined £12 5s. 0d., including costs as actual offender.
- 62 **Bread.** By inference was an aid to slimming. Wrapper did not bear particulars of calorie intake. Label to be amended.
- 63 **Iced Lolly.** Devoid of fruit juice. Manufacturers cautioned.
- 64 **Iced Lolly.** Ingredients on label not set out correctly. Label to be amended.
- 65 **Meat and Potato Pie.** Contaminated with mould. Seller fined £19 3s. 0d., including costs.
- 66 **Pork Pie.** Contaminated with mould. Seller fined £15 8s. 0d., including costs.
- 67 **Cornish Pasty.** Containing hair. Bakers cautioned.
- 68 **Walnut Kernels.** Containing insect eggs and mites. Sellers cautioned.
- 69 **Currants.** Containing 2,000 p.p.m. of silt and soil. Food Packer fined a total of £31 0s. 0d., including costs.
- 70 **Tinned Pineapple.** Containing flies. Importers fined £64 18s. 0d. including costs (Quashed on appeal to Quarter Sessions).

Complaints from schools relating to foreign matter found in bottles of milk have received attention from time to time and these were usually concerned with the presence of dirt, mould or glass splinters. When investigated only three were of such a nature as to warrant legal proceedings, two being concerned with milk containing dangerous glass splinters and the other with milk containing a metal stud.

Despite all that has already been said of complaints concerned with foreign matter which were investigated and sent to the Public Analyst, a considerable number of foodstuffs which have contained an assortment of metal objects cigarette ends and other objectionable matter have been dealt with by the Department without referring the matter to the Public Analyst because of the obvious nature of the complaint. No reference to these will therefore appear in the Public Analyst's return but the overall picture of unsatisfactory samples has worsened.

In considering the position as a whole, the number of unsatisfactory samples referred to in the summary is 146 and compares with 94 for the previous year, which shows that the sampling of foodstuffs on sale to the public is still as important as ever.

| <i>Offence No.</i>         | <i>Trade</i>               | <i>Nature of Offence</i>                                  | <i>Act</i>                | <i>Penalty Fines and Costs</i>                     |
|----------------------------|----------------------------|-----------------------------------------------------------|---------------------------|----------------------------------------------------|
| <b>FOOD AND DRUGS ACT.</b> |                            |                                                           |                           |                                                    |
| 1                          | Dairy Company              | Selling bottle of milk containing paper carton.           | Food and Drugs Act, 1955. | £14 4s. 0d.                                        |
| 2                          | Bakers                     | Selling loaf of bread containing oil and iron compounds.  | ditto                     | £18 5s. 0d.                                        |
| 3                          | Dairy Company.             | Selling milk containing cement and sand.                  | ditto                     | £15 5s. 0d.                                        |
| 4                          | Canners                    | Selling a tin of fruit salad containing a fly.            | ditto                     | £13 3s. 0d.                                        |
| 5                          | Importers                  | Selling corned beef containing a fly.                     | ditto                     | Absolute discharge on payment of £9 4s. 0d. costs. |
| 6                          | Dairy Company              | Selling milk containing plastic toy.                      | ditto                     | £14 10s. 10d.                                      |
| 7                          | Dairy Company              | Selling bottle of school milk containing pieces of glass. | ditto                     | £28 10s. 0d.                                       |
| 8                          | Butcher                    | Selling meat pie containing cigarette end.                | ditto                     | £28 3s. 0d.                                        |
| 9                          | Meat Product Manufacturers | Selling cornish pasty containing cigarette end.           | ditto                     | £22 17s. 0d.                                       |
| 10                         | Cafe                       | Selling meat pie contaminated with mould.                 | ditto                     | £8 8s. 0d.                                         |
| 11                         | Dairy Company              | Selling bottle of milk containing shoe stud.              | ditto                     | £18 3s. 0d.                                        |
| 12                         | Dairy Company              | Selling milk containing dirt.                             | ditto                     | £35 5s. 0d.                                        |

# TABLE OF PROSECUTIONS

| <i>Offence No.</i> | <i>Trade</i>    | <i>Nature of Offence</i>                                                                       | <i>Act</i>                | <i>Penalty<br/>Fines and Costs</i>                  |
|--------------------|-----------------|------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------|
| 13                 | Importers       | Selling tin of tomatoes containing a caterpillar.                                              | Food and Drugs Act, 1955. | Absolute discharge on payment of £6 14s. 0d. costs. |
| 14                 | Baker           | Selling a loaf of bread contaminated with soiled dough and piece of string.                    | ditto                     | £13 5s. 0d.                                         |
| 15                 | Farmer          | Selling 135 gallons of milk in 14 churns, 13 of which contained 1·8% to 5·4% extraneous water. | ditto                     | Case Dismissed.                                     |
| 16                 | Bakers          | Selling a loaf of bread containing a piece of cloth.                                           | ditto                     | £10 0s. 0d.                                         |
| 17                 | Bakers          | Selling potato cake containing a cigarette filter tip.                                         | ditto                     | £3 0s. 0d.                                          |
| 18                 | Dairy Company   | Selling milk containing mould and insect fragments.                                            | ditto                     | £26 10s. 0d.                                        |
| 19                 | Importers       | Selling corned beef containing mat of woollen fibres.                                          | ditto                     | £31 8s. 0d.                                         |
| 20                 | Dairy Company   | Selling milk containing piece of glass.                                                        | ditto                     | £17 10s. 0d.                                        |
| 21                 | Dairy Company   | Selling milk containing dirt.                                                                  | ditto                     | £27 14s. 0d.                                        |
| 22                 | Dairy Company   | Selling butter containing piece of wood.                                                       | ditto                     | £27 15s. 0d.                                        |
| 23                 | Farmer          | Selling milk containing dirt and vegetable fibres.                                             | ditto                     | £13 18s. 0d.                                        |
| 24                 | Brewery Company | Selling whisky containing 3·8% excess                                                          | ditto                     | £18 2s. 0d.                                         |

| <i>Offence No.</i> | <i>Trade</i>       | <i>Nature of Offence</i>                                       | <i>Act</i>                | <i>Penalty<br/>Fines and Costs</i> |
|--------------------|--------------------|----------------------------------------------------------------|---------------------------|------------------------------------|
| 25                 | Importers          | Selling jar of raspberry jam containing a beetle.              | Food and Drugs Act, 1955. | £23 18s. 0d.                       |
| 26                 | Butcher            | Selling pork sausage 15.4% deficient in meat.                  | ditto                     | £13 18s. 0d.                       |
| 27                 | Bakers             | Selling loaf of bread contaminated with soiled dough.          | ditto                     | £28 18s. 0d.                       |
| 28                 | Wholesale Butchers | Selling sausage containing a tooth.                            | ditto                     | £10 0s. 0d.                        |
| 29                 | Grocer             | Selling sponge sandwich contaminated with mould                | ditto                     | £20 0s. 0d.                        |
| 30                 | Butchers           | Selling pork sausage containing only 54% of meat.              | ditto                     | £15 18s. 6d.                       |
| 31—32              | Bakers             | Selling steak and kidney pie contaminated with mould.          | ditto                     | £40 0s. 0d.                        |
| 33                 | Baker              | Selling a teacake containing a cigarette filter tip.           | ditto                     | £5 0s. 0d.                         |
| 34                 | Bakers             | Selling a cream trifle containing a fly.                       | ditto                     | £13 3s. 0d.                        |
| 35                 | Bakers             | Selling cake containing a sliver of wood and bifurcated rivet. | ditto                     | £30 5s. 0d.                        |
| 36                 | Jam Manufacturer   | Selling jar of jam containing a piece of glass.                | ditto                     | £10 0s. 0d.                        |
| 37                 | Dairy Company      | Selling milk containing leaf fragments.                        | ditto                     | £24 3s. 0d.                        |

# TABLE OF PROSECUTIONS

| <i>Offence No.</i> | <i>Trade</i>           | <i>Nature of Offence</i>                                                      | <i>Act</i>                        | <i>Penalty Fines and Costs</i> |
|--------------------|------------------------|-------------------------------------------------------------------------------|-----------------------------------|--------------------------------|
| 38                 | Butchers               | Selling pork sausage containing only 57% of meat.                             | Food and Drugs Act, 1955.         | £14 3s. 0d.                    |
| 39                 | Grocer                 | Selling pork pie contaminated with mould.                                     | ditto                             | £9 3s. 0d.                     |
| 40                 | Grocer                 | Selling pineapple gateau containing partly decomposed fat.                    | ditto                             | £12 1s. 0d.                    |
| 41                 | Bakers                 | Selling fruit cake containing piece of glass.                                 | ditto                             | £15 5s. 0d.                    |
| 42                 | Food Packer            | Selling butter containing iron rust.                                          | ditto                             | £14 3s. 0d.                    |
| 43                 | Confectioners          | Selling a sweet containing a piece of metal.                                  | ditto                             | £24 4s. 0d.                    |
| 44                 | Manufacturing Chemists | Selling zinc ointment deficient in zinc oxide.                                | ditto                             | £18 2s. 0d.                    |
| 45                 | Bakers                 | Selling meat pie contaminated with mould.                                     | ditto                             | £15 5s. 0d.                    |
| 46                 | Importers              | Selling tin of corned beef containing piece of cloth.                         | ditto                             | £19 3s. 0d.                    |
| 47                 | Bakers                 | Selling milk bread containing only 2% of non-fatty milk solids.               | Bread and Flour Regulations, 1963 | £49 3s. 0d.                    |
| 48                 | ditto                  | Giving with bread a label bearing the words milk loaf, calculated to deceive. | Food and Drugs Act, 1955.         | £10 0s. 0d.                    |
| 49                 | Fruit Canners          | Selling tin of plums containing bluebottle fly.                               | ditto                             | £19 3s. 0d.                    |
| 50                 | Bakers                 | Selling loaf of bread containing cotton                                       | ditto                             | £18 2s. 0d.                    |

| <i>Offence No.</i> | <i>Trade</i>  | <i>Nature of Offence</i>                                              | <i>Act</i>                | <i>Penalty Fines and Costs</i>       |
|--------------------|---------------|-----------------------------------------------------------------------|---------------------------|--------------------------------------|
| 51                 | Cafe          | Selling pork pie contaminated with mould.                             | Food and Drugs Act, 1955. | £15 8s. 0d.                          |
| 52                 | Dairy Company | Selling milk containing oil and copper compounds.                     | ditto                     | £17 1s. 0d.                          |
| 53                 | Grocer        | Selling lard containing piece of glass.                               | ditto                     | Case proved but defendant acquitted. |
| 54                 | Lard Refiners | Prosecuted as actual offender in 53.                                  | ditto                     | £34 8s. 0d.                          |
| 55                 | Importer      | Selling spaghetti containing live weevils.                            | ditto                     | £13 18s. 0d.                         |
| 56                 | Farmer        | Selling milk containing 11·5% extraneous water.                       | ditto                     | £10 12s. 0d.                         |
| 57                 | Grocers       | Selling beef sausages contaminated with mould.                        | ditto                     | £18 3s 0d.                           |
| 58                 | Baker         | Selling loaf of bread containing iron compounds and saponifiable oil. | ditto                     | £13 18s. 0d.                         |
| 59                 | Grocer        | Selling meat pie contaminated with mould.                             | ditto                     | £26 8s. 0d.                          |
| 60                 | Grocer        | Selling meat and potato pie contaminated with mould.                  | ditto                     | £19 3s. 0d.                          |
| 61                 | Bakers        | Selling loaf of bread containing a beetle.                            | ditto                     | £33 18s. 0d.                         |
| 62                 | Farmer        | Selling bottle of milk without the use of a special designation.      | ditto                     | £1 0s. 0d.                           |
| 63                 | ditto         | ditto                                                                 | ditto                     | Case withdrawn                       |

# TABLE OF PROSECUTIONS

| <i>Offence No.</i> | <i>Trade</i>   | <i>Nature of Offence</i>                                      | <i>Act</i>                         | <i>Penalty Fines and Costs</i>                           |
|--------------------|----------------|---------------------------------------------------------------|------------------------------------|----------------------------------------------------------|
| 64                 | Baker          | Selling loaf of bread containing particles of metal.          | Food and Drugs Act, 1955.          | £32 1s. 0d.                                              |
| 65                 | Bakers         | Selling milk bread containing only 1·5% of whole milk solids. | Bread and Flour Regulations, 1963. | Case proved but defendant acquitted                      |
| 66                 | Manager        | Prosecuted as actual offender in 65.                          | ditto                              | £12 5s. 0d.                                              |
| 67—68              | Food Packers   | Selling dried currants containing silt and soil.              | Food and Drugs Act, 1955.          | £31 0s. 0d.                                              |
| 69                 | Brewery Co.    | Selling bottle of ginger ale grossly contaminated with mould. | ditto                              | £42 7s. 0d.                                              |
| 70                 | Food Importers | Selling tin of pineapple containing flies.                    | ditto                              | £64 18s. 0d.<br>(Quashed on appeal to Quarter Sessions). |

## B. SCHOOL SWIMMING POOLS

Swimming instruction forms an important part of physical education for the older children from the County Junior Schools and pupils from Secondary and Grammar Schools. Bathing facilities have until recent years been arranged where practically possible at the nearest public, or, in three instances, privately-owned pools. In many cases, owing to the distance of the pool from the school, transport has to be arranged with obvious disadvantages and complications.

In recent years a number of schools have, by one means or another, constructed, or are negotiating for the construction of, their own swimming pools. The County has carried out further improvements to three of these: Calday, Lymm and Christleton; including enclosure and heating and the provision of changing and sanitary accommodation. These three pools are now used by a number of schools situated in their particular Division. In some Counties, particularly in the South & South-west of the Country, the provision of school pools has gone ahead at a greater pace than in Cheshire, and it is thought that in Cheshire this trend will continue.

The Cheshire Education Committee issued a memorandum in February, 1962, on their policy for the "Provision of Swimming Baths". This laid down that all pools must be provided with a filtration plant (including automatic chlorination equipment) satisfactory to the Principal School Medical Officer.

At the time of writing this report (July 1965) there are 11 schools with their own swimming pools, with another in the advanced planning stage for construction in the near future.

Details of the pools in use are as follows:—

- |                                             |                                                                                                                                        |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1. King's School, Chester                   | 37,000 gallons capacity. Pressure sand filter. Automatic chlorinator using chlorine gas. Indoor, heated.                               |
| 2. Calday Grange County Grammar School      | 95,500 gallons capacity. Diatomaceous earth filter. Automatic chlorinator using chlorine gas. Indoor, heated.                          |
| 3. Capenhurst Grange Special School         | "Purley" learner pool. 4,200 gallons capacity. Purley "filtration" and liquid hypochlorite automatic chlorinator. Outdoor, not heated. |
| 4. Christleton County Secondary School      | 80,000 gallons capacity. Diatomaceous earth filter. Automatic chlorinator using chlorine gas. Indoor, heated.                          |
| 5. Astley County Grammar School, Dukinfield | 72,000 gallons capacity. Diatomaceous earth filter. Automatic chlorinator using chlorine gas. Outdoor, not heated.                     |

- |                                                           |                                                                                                                                   |
|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 6. Greasby County Junior School                           | Learner pool. 14,000 gallons capacity. Diatomaceous earth filter. Liquid hypochlorite automatic chlorinator. Outdoor, not heated. |
| 7. Lymm Grammar School                                    | 76,000 gallons capacity. Pressure sand filter. Automatic chlorinator using chlorine gas. Indoor, heated                           |
| 8. Norbury Booths County Junior School, Knutsford         | Learner pool. 15,000 gallons capacity. Diatomaceous earth filter. Liquid hypochlorite automatic chlorinator. Outdoor, not heated. |
| 9. Sandbach Grammar School                                | 80,000 gallons capacity. Diatomaceous earth filter. Automatic chlorinator using chlorine gas. Outdoor, heated.                    |
| 10. Stockton Heath Church of England Aided Primary School | Learner pool. 15,000 gallons capacity. Diatomaceous earth filter. Liquid hypochlorite automatic chlorinator. Outdoor, heated.     |
| 11. Gorsey Bank County Primary School, Wilmslow           | Learner pool. 18,750 gallons capacity. Diatomaceous earth filter. Liquid hypochlorite automatic chlorinator. Outdoor, not heated. |

The enclosed pools do, of course, enable swimming instruction to be given all the year round. With our English weather outdoor pools can only receive a very limited use.

Regular routine visits by the County Health Inspector or his Deputy were made in 1964, during the period when the pools were in use, and any problems which may have arisen were discussed. Records kept by the person in charge of the pool were inspected and a check was made of the residual chlorine in the water, and the pH value. Also a check is carried out on the condition of the footbath to ensure that this is satisfactory.

Samples for bacteriological examination were also taken and submitted to the Public Health Laboratory Service for examination. Normally three samples were taken on each occasion, one each from the inlet, outlet and centre section of the pools. By this means a representative picture was obtained of the bacteriological condition of the water in the pool.

A total of 65 water samples was taken during 1964, and these all proved satisfactory. This is a marked improvement on the 1963 figures when five of the 61 samples taken were unsatisfactory. The improvement is due to the provision of filtration and chlorination plant at the

Calday Grange pool which previously had operated on the "fill and empty" principle, also to the experience and knowledge gained in previous years by the persons responsible for operating the plants. I also feel that the routine inspections carried out by the County Health Inspectors have made a big contribution to this excellent record.

"Marginal" chlorination is in use at all the pools and during 1964 we have used a recommended residual chlorine figure of between 0.5 and 0.8 parts per million. The Ministry of Health originally recommended a free chlorine residual of between 0.2 and 0.5 parts per million, but in practice this is found to give insufficient reserve to allow of effective control under conditions of varying load. In fact most counties are now using a recommended range of up to 1.0 p.p.m., aiming at something like this level at the outlet end of the pool so as to give completely effective control, and this standard is now being recommended for the Cheshire pools as from the beginning of 1965. This level of residual chlorine can be perfectly well tolerated, and indeed if complaints of eye irritation do arise they are almost always due to failure to maintain a correct pH value throughout the pool. (The pH value indicates the acidity or alkalinity of the water, a value of 7.0 being neutral, and values below 7 indicating increasing acidity, and above 7 alkalinity). Swimming pool water must be maintained within the pH range of 7.4 to 8.0, and it is important to check this reading frequently in addition to the figure of residual chlorine. Pools in which chlorine gas is used tend to become increasingly acid, and it is necessary to provide continuous dosing with alkali to correct this. On the other hand pools in which hypochlorite solutions are used do not usually require other chemical treatment to maintain a satisfactory pH value, though occasionally in this case the water may become too alkaline when it is necessary to add some form of acid to correct the position.

The need for having a suitably trained person with time to devote to ensure that the filtration and chlorination plant is properly maintained and working satisfactorily and to take regular readings of the condition of water in the pool cannot be over-emphasised. The condition of the water in a pool with a fluctuating bathing load can change very quickly necessitating plant adjustment, particularly of the chlorinator.

## C. WATER SUPPLIES, SEWERAGE AND SEWAGE DISPOSAL

During 1964, work on many schemes was in progress throughout the county, particularly in connection with sewerage and sewage disposal, and many further schemes were in various stages of consultation, preparation and consideration.

### (a) Regrouping of Water Undertakings.

As stated in the last Annual Report (1963) regrouping has resulted in a reduction from 25 to 10 in the number of water undertakings serving the county, since this process was first set in train in 1956. During 1964 there was little further development in this field, indeed it would appear that the situation may remain static now for some time, except that the position of the Runcorn District Water Board has been raised again in connection with the provision of water supplies to the Runcorn New Town. The scheduled area of the New Town development lies partly within the area of supply of the Runcorn District Water Board and partly within the area of supply of the Warrington Corporation undertaking. The water necessary for the New Town is likely, in any case, to be derived from the Liverpool Corporation's River Dee supply, but it would appear to be desirable for the whole of the New Town area to be supplied by the same Water Undertaking.

### (b) Fluoridation of Water Supplies.

As reported in the Annual Report for 1962, the County Council adopted the following resolution early in 1963, after full consideration of the issues involved:—

- (i) "That approval be given, in principle, to fluoridation of water supplies in Cheshire to the extent of 1 p.p.m.
- (ii) That the Cheshire Local Authority Associations and the County District Authorities be informed.
- (iii) That copies of the Report of the County Medical Officer of Health be forwarded to the Honorary Secretaries of the Cheshire Local Authority Associations, and to the Town Clerk or Clerk of each County District Authority.
- (iv) That the several water undertakings supplying the administrative County and other local Health Authorities concerned be informed of the decision".

Action was duly taken with regard to paragraphs (ii), (iii) and (iv) above, and the views of a number of the other local health authorities concerned, of certain of the water undertakings, and of the county district authorities, were received.

In June, 1963, the Minister of Health issued a Circular (12/63) intimating that he had now decided to issue a general approval to all local health authorities under Section 28 of the National Health Service Act, 1946, enabling them to make arrangements with statutory water undertakings for the addition of fluoride to public water supplies without

further reference to him, but asking if Authorities would let him know when it was decided to approach a water undertaking and later would inform him of the approximate date when fluoridation was expected to commence. The Minister also expressed the hope that Authorities would now make arrangements covering all areas where water was deficient in flouride.

However, during 1963, a High Court writ was served on the Corporation of Watford (one of the undertakings which took part in the controlled five-year experiment in the period 1955-61, and which is still adding fluoride to its water supplies) claiming a declaration that the Corporation as a water supply authority was not empowered to add fluorides to the public water supply, and asking for an injunction to restrain them from doing so.

Consequently no further action was taken by the County Council in this matter, pending the settlement of the Watford case.

In December, 1964, the Privy Council gave a decision in the case of Attorney-General of New Zealand v. Lower Hutt Corporation which answered two questions, both in the affirmative, namely

- (a) whether a water undertaking is acting *intra vires* in adding fluoride to its water supply, and
- (b) whether a water containing such additions remains a "wholesome" water.

No doubt influenced by this decision, the High Court case against Watford Corporation was later withdrawn, and in August 1965, the Minister of Health issued a further Circular (15/65) in which he expressed the hope that all local health authorities would now take steps to make arrangements for the introduction of fluoridation. He also stated that he is prepared to indemnify any local health authority or statutory water undertaking in England or Wales in the event of legal proceedings either on lack of powers or on damage to health, subject to certain safeguards.

The stage thus appears set at the time of writing this report for a surge forward in the fluoridation of public water supplies in this country, and the position with regard to Cheshire is again receiving active consideration.

### **(c) Financial Assistance to District Authorities**

For the Financial year which ended on 31st March, 1964, a total of £40,274 was contributed by the County Council to the County District Councils who qualified for assistance either under Section 56 of the Local Government Act of 1958, or under the Rural Water Supplies and Sewerage Acts.

In the Financial year which ended on 31st March, 1965, the total was £28,588.

During the year 1964, three schemes of water supply estimated to cost £30,067, and six schemes of sewerage and sewage disposal estimated to cost £180,952, were considered by the Department, and brief outlines of these schemes are given below.

## 1. WATER SUPPLIES

### (a) **Warrington County Borough Council Water Undertaking**

Water supply scheme for the parishes of Antrobus and Great Budworth in the Runcorn Rural District, at an estimated cost of £14,000.

This scheme, submitted by the Warrington County Borough Council as water authority for the area, was designed to deal with difficulties being experienced in certain parts of these parishes both from inadequate supplies and low pressures, by means of additional links in the distribution system so as to improve circulation and provide alternative feed routes, and by re-siting a reducing valve so as to avoid restricting pressures in the two parishes named.

The scheme was approved by the County Council, but the Ministry of Housing and Local Government decided that it was not one which they could support for grant purposes under the Rural Water Supplies and Sewerage Acts since no properties would receive a supply of water "for the first time" under the scheme.

The County Borough Council then decided to carry out the scheme and to finance it by borrowing the whole amount.

### (b) **Mid-Cheshire Water Board**

Water main extension scheme in the parish of Duckington, in the Tarvin Rural District at an estimated cost of £760, and providing for the laying of 395 yards of 4inch main.

### (c) **Stockport and District Water Board**

Water mains extension scheme for the Ludworth area of Marple Urban District at an estimated cost of £15,307. The scheme makes provision for a booster station and for the laying of 4,057 yards of 3" main, to enable 50 properties to be provided with a mains supply for the first time, and to provide for any foreseeable development in the area. The present supplies are derived mainly from various local springs, some of which are polluted.

## 2. SEWERAGE AND SEWAGE DISPOSAL

### (a) **Chester Rural District Council**

Sewerage scheme for the village of Rowton at an estimated cost of £22,900. The scheme provides for the laying of 75 yards of 9" and 1,154 yards of 6" sewer in the Rowton Village area south of Rowton Hall Hotel and part of the Whitchurch Road area at Rowton Moor. Thirty-three properties are situate in the area, the majority of which are at present served by septic tanks and a few by pail closets. Sufficient sewer capacity has been allowed for future "in filling" development. The flow will discharge by gravity to an ejector station now being built at Moor Lane by the Tarvin Rural District Council, in connection with Stage II of their adjacent Waverton Sewerage Scheme, and the sewage will be treated at the Waverton Disposal Works of the Tarvin Rural District Council.

Sewerage scheme for the village of Thornton-le-Moors at an estimated cost of £21,500. The scheme provides for the laying of 848 yards of 6" diameter foul sewers to serve 57 existing properties and 27 future properties, discharging to a pumping station, from where the sewage will be pumped via 1721 yards of 5" diameter rising main to Elton Green for ultimate disposal at the works to be provided under the Elton scheme, which will be suitably enlarged.

#### **(b) Nantwich Rural District Council**

Sewerage and sewage disposal scheme for the villages of Wybunbury and Walgherton at an estimated cost of £78,000. The scheme provides for the laying of a total of 2,831 yards of gravity sewer, varying in diameter from 6" to 12" to serve 182 existing properties in the area, and Goudhurst College which accommodates approximately 150 pupils and staff. The capacity of the proposed sewers will provide facilities for future development in the area. Sewage will be taken by a rising main and gravity sewer to an existing pump house at Doddington Camp and will be treated at the Doddington Camp disposal works which have been given free of charge by Sir Evelyn Delves Broughton to the Rural District Council.

In the area to be sewered there are 70 pail closets, the remaining properties are served by septic tanks.

#### **(c) Runcorn Rural District Council**

Sewerage scheme for the Gib Hill area of the parish of Antrobus at an estimated cost of £5,100. The scheme provides for the laying of sewers to serve approximately 24 properties in the Gib Hill area, and a school and one cottage in the adjoining Parish of Great Budworth. Treatment of the sewage will be carried out by agreement with the Northwich Rural District Council in the Comberbach scheme of that authority.

This scheme was approved subject to the Rural District Council being asked to consider a variation in the route of one of the sewers to facilitate access thereto of three additional properties, and the lowering of the level of another section of sewer to permit the connection thereto of two further properties if required at some future date.

#### **(d) Tarvin Rural District Council**

Sewerage and sewage disposal scheme for the parishes of Churton-by-Aldford and Churton-by-Farndon at an estimated cost of £47,310. The scheme provides for a "separate" system of sewerage and a treatment works to deal with a present population of 275 persons and 88 properties. The sewers will have a capacity to deal with a flow from a population of 640 persons and the treatment works are designed so as to allow for extensions at some future date to take the ultimate flow. At the present time half the area is connected to a road drain which discharges without treatment into an open stream; the other half of the area has septic tanks, some of which are connected to an old high-way drain with only partial treatment.

### (e) Northwich Rural District Council

Sewerage scheme for the Eaton Road area of the village of Cotebrook at an estimated cost of £6,142. The scheme provides for the laying of two branch gravity sewers in Eaton Road and the Tarporley-Warrington Road, Cotebrook, and a connecting gravity sewer to the existing sewerage system, a total length of 1,093 yards of 6" diameter sewer, to give fifteen existing properties main drainage facilities. The sewage will be treated at the existing disposal works which has sufficient capacity to deal with the additional flow.

## 3. MINISTRY OF HOUSING AND LOCAL GOVERNMENT INQUIRIES AND INVESTIGATIONS

During the year, Inspectors of the Ministry held Inquiries or Investigations into the following schemes, and on each occasion the Department was represented by the County Health Inspector or his Deputy.

January 15th—Alsager Urban District Council—Comprehensive sewerage and sewage disposal scheme.

February 6th—Bollington Urban District Council—Construction of trunk sewer to convey sewage of Urban District to the Macclesfield Borough Sewage Disposal Works for treatment.

March 12th—Macclesfield Rural District Council—Gawsworth Sewerage and Sewage Disposal Scheme.

## D. GENERAL

### 1. LIAISON WITH COUNTY PLANNING DEPARTMENT

An arrangement is in operation whereby applications for approval of development under Planning Legislation where the proposals have a public health significance and upon which the Planning Officer would like a public health opinion at County level, are submitted to the Department for consideration and comment.

During the year 1964, eight such applications were dealt with as follows, and in each case full consideration of all aspects took place, and the Department's opinion given for the assistance of the Planning Officer:—

|                                                               |   |
|---------------------------------------------------------------|---|
| Sewage disposal plant to serve large slaughter-house          | 1 |
| Sewage works extension                                        | 2 |
| Sewage ejector stations                                       | 2 |
| Residential development in proximity to sewage disposal works | 1 |
| Development adjacent to Clinic Centres                        | 2 |

## 2. LIAISON WITH COUNTY SURVEYOR'S DEPARTMENT

For some years the County Council has allowed the discharge of effluents into its road surface water drains subject to a number of conditions and safeguards.

All applications received by the County Surveyor for permission to make such connections are referred to this Department as well as to the County District Councils (in the case of private development) and to the appropriate River Board.

The Department considers each case on its merits, particularly with regard to the type of treatment to be installed and the ultimate outfall of the surface water drain, and also as to whether any other means of disposal are available.

The County Surveyor is then advised as to whether it is considered that the connection should be allowed. In many cases it is recommended that connections should only be allowed if certain conditions are complied with, and in this connection care is taken to see that the treatment plant is adequate both in design and in size to ensure that an effluent of reasonable purity can be discharged to the County Council's drain and thence to the watercourse. In all cases an adequate form of secondary treatment of the septic tank effluent is insisted upon.

If the connection is allowed, a tripartite agreement is entered into to protect the County Council's position, and the District Council is responsible for seeing that the means of treatment provided are properly constructed, and for making inspections at six-monthly intervals to ensure satisfactory maintenance and efficient working.

During 1964, a total of ten applications was dealt with.

## 3. ATMOSPHERIC POLLUTION

Circular No. 69/63, of the Ministry of Housing and Local Government commented upon in the Annual Report for 1963, had the effect of slowing down progress by some local authorities in the pursuit of smoke control programmes. In many instances estimates of the cost of the declaration of smoke control areas had to be re-submitted to the Ministry, and in some cases authorities paused to take stock of the new financial situation before deciding future action.

However, smoke control work generally seems to be gaining impetus again, and at the time of writing this report (September, 1965) the situation has changed once more in that open fire smokeless fuels, other than gas coke, are now in more plentiful supply, and it is expected will soon be adequate in all areas.

A summary of the position at 1st April, 1965, for the local authorities in Cheshire regarded as "Black Areas" is given below, and it will be seen that certain authorities are making considerable progress.

**(a) South Lancashire and North-East Cheshire "Black Area"**

| <i>Local Authority</i>  | <i>Target date</i> | <i>Final acreage</i> | <i>Acreage in operation</i> | <i>Premises in operation</i> |
|-------------------------|--------------------|----------------------|-----------------------------|------------------------------|
|                         |                    |                      | 1/4/65                      | 1/4/65                       |
| Altrincham M.B.         | 1973               | 3,519                | 45                          | 547                          |
| Dukinfield M.B.         | —                  | 1,725                | 616                         | 300                          |
| Hyde M.B.               | 1975               | 4,170                | 850                         | 6,143                        |
| Sale M.B.               | 1970               | 3,628                | 1,537                       | 7,132                        |
| Stalybridge M.B.        | 1975               | 3,030                | 500                         | 2,280                        |
| Bredbury & Romiley U.D. | 1973               | 688                  | 442                         | 1,409                        |
| Cheadle & Gatley U.D.   | 1966               | 5,285                | 2,047                       | 6,488                        |

**(b) Merseyside "Black Area"**

|                     |      |       |     |       |
|---------------------|------|-------|-----|-------|
| Bebington M.B.      | 1980 | 2,220 | 544 | 3,504 |
| Ellesmere Port M.B. | 1977 | 3,724 | 866 | 4,707 |
| Runcorn U.D.        | 1970 | 3,116 | 845 | 2,628 |

**4. NURSING HOMES, OLD PERSONS' HOMES AND DISABLED PERSONS' HOMES**

At the end of 1963, arrangements were made whereby the County Health Inspector assists with inspections of these premises in connection with their registration under the Public Health Act, 1936, and the National Assistance Act, 1948.

All matters of environmental health are dealt with at these inspections including size, equipment and suitability of rooms to be used by patients or residents and staff, sanitary and washing accommodation, facilities for the storage, preparation and cooking of food, the structural and hygienic condition of the premises, and their general suitability for the purpose proposed. Where improvements are necessary advice is given as to the best way of achieving these and revisits made as necessary.

Up to 31st December, 1964, twenty such inspections had been made, eight to Nursing Homes, nine to Old Persons' Homes, and three to Homes for Disabled Persons.

It is hoped eventually to carry out a survey of all such registered Homes in the county.

**5. ADULT AND JUNIOR TRAINING CENTRES**

In the latter months of 1964, inspections were carried out by the County Health Inspector, in conjunction with the local authorities, of the kitchens at Training Centres in the county, in order to ensure a high standard in these premises and to confirm that the Food Hygiene Regulations were being fully complied with.

Adult Training Centres at Altrincham, Crewe, Ellesmere Port, Hyde, Macclesfield and Northwich were inspected, and Junior Training Centres at Altrincham, Crewe, Hyde, Macclesfield and Northwich.

A very high standard of cleanliness and hygiene was in fact found at all the premises inspected.

However, there were a number of points which called for comment. Some were matters of procedure which were dealt with by the Divisional Medical Officers concerned.

Some were minor matters of construction or equipment which were also dealt with through normal channels.

But beyond these there were a number of points affecting the provisions of the Food Hygiene Regulations which called for consideration at the design stage of similar buildings in the future, and discussions took place with the County Architect's Department regarding these points.

## 6. TATTON HALL

The County Health Inspectors have co-operated with other Departments and with the Bucklow Rural District Council in a number of instances in connection with work carried out at Tatton Park, affecting such matters as water supply and sanitary accommodation, camping, use of the Mere for bathing, sewerage and sewage disposal, and catering.

During the closed season 1964-1965, an extensive scheme for overhauling the Kitchens was carried through in order to bring these up to standard for the large numbers now using these facilities during the summer months.

This scheme was prepared by the County Health Inspector in co-operation with other interested parties.

The sewage disposal system for the Hall, Stable Block, and Home Farm area, has also been dealt with.



# Appendix of Statistics

1964

---

## TABLE A

Deaths by Causes.—Sex—  
Each County District.

## TABLE B

Deaths by Causes.—Sex; Age—  
Urban Districts, Rural Districts,

## TABLE C

Statistical Summary of enumerated and estimated population, area, births and deaths, birth rate and death rate, deaths of infants, infantile mortality, deaths from each of principal zymotic diseases, corresponding zymotic death rate, for each County District.



TABLE A (Urban i).

| CAUSES OF DEATH.                           | Alderley<br>Edge U.D. |          | Alsager<br>U.D. |          | Altrincham<br>M.B. |           | Bebington<br>M.B. |           | Bollington<br>U.D. |          | Bowdon<br>U.D. |          | Bredbury<br>and<br>Romiley<br>U.D. |           | Cheadle<br>and<br>Gatley<br>U.D. |           | Congleton<br>M.B. |          | Crewe<br>M.B. |           | Dukinfield<br>M.B. |           | Ellesmere<br>Port M.B. |           | Hale<br>U.D. |          | Hazel<br>Grove and<br>Bramhall<br>U.D. |           | Hoylake<br>U.D. |           | Hyde<br>M.B. |           |   |
|--------------------------------------------|-----------------------|----------|-----------------|----------|--------------------|-----------|-------------------|-----------|--------------------|----------|----------------|----------|------------------------------------|-----------|----------------------------------|-----------|-------------------|----------|---------------|-----------|--------------------|-----------|------------------------|-----------|--------------|----------|----------------------------------------|-----------|-----------------|-----------|--------------|-----------|---|
|                                            | M.<br>31              | F.<br>38 | M.<br>41        | F.<br>33 | M.<br>214          | F.<br>224 | M.<br>329         | F.<br>303 | M.<br>53           | F.<br>45 | M.<br>27       | F.<br>37 | M.<br>120                          | F.<br>121 | M.<br>225                        | F.<br>241 | M.<br>93          | F.<br>88 | M.<br>374     | F.<br>242 | M.<br>122          | F.<br>138 | M.<br>206              | F.<br>174 | M.<br>91     | F.<br>79 | M.<br>154                              | F.<br>158 | M.<br>176       | F.<br>242 | M.<br>238    | F.<br>279 |   |
| ALL CAUSES                                 | —                     | —        | 1               | —        | 1                  | —         | 2                 | —         | —                  | —        | —              | —        | —                                  | —         | 3                                | —         | —                 | —        | 2             | —         | 1                  | —         | 3                      | —         | —            | —        | —                                      | —         | 1               | 1         | —            | —         |   |
| Tuberculosis, Respiratory                  | —                     | —        | —               | —        | —                  | —         | —                 | —         | —                  | —        | —              | —        | —                                  | —         | —                                | —         | —                 | —        | —             | —         | —                  | —         | —                      | —         | —            | —        | —                                      | —         | —               | —         | —            | —         |   |
| Tuberculosis, Other                        | —                     | —        | —               | —        | —                  | —         | —                 | —         | —                  | —        | —              | —        | —                                  | —         | —                                | —         | —                 | —        | —             | —         | —                  | —         | —                      | —         | —            | —        | —                                      | —         | —               | —         | —            | —         |   |
| Syphilitic Disease                         | —                     | —        | —               | —        | —                  | —         | 1                 | 1         | —                  | —        | 1              | —        | 1                                  | —         | —                                | —         | 1                 | —        | —             | —         | —                  | 1         | 2                      | 1         | —            | —        | 1                                      | 1         | —               | —         | —            | 1         |   |
| Diphtheria                                 | —                     | —        | —               | —        | —                  | —         | —                 | —         | —                  | —        | —              | —        | —                                  | —         | —                                | —         | —                 | —        | —             | —         | —                  | —         | —                      | —         | —            | —        | —                                      | —         | —               | —         | —            | —         |   |
| Whooping Cough                             | —                     | —        | —               | —        | —                  | —         | —                 | —         | —                  | —        | —              | —        | —                                  | —         | 1                                | —         | —                 | —        | —             | —         | —                  | —         | —                      | —         | —            | —        | —                                      | —         | —               | —         | —            | —         |   |
| Meningococcal Infections                   | —                     | —        | —               | —        | —                  | —         | —                 | —         | —                  | —        | —              | —        | —                                  | —         | —                                | —         | —                 | —        | —             | —         | —                  | —         | —                      | —         | —            | —        | —                                      | —         | —               | —         | —            | —         |   |
| Acute Poliomyelitis                        | —                     | —        | —               | —        | —                  | —         | —                 | —         | —                  | —        | —              | —        | —                                  | —         | —                                | —         | —                 | —        | —             | —         | —                  | —         | —                      | —         | —            | —        | —                                      | —         | —               | —         | —            | —         |   |
| Measles                                    | —                     | —        | —               | —        | —                  | —         | —                 | —         | —                  | —        | —              | —        | —                                  | —         | —                                | —         | —                 | —        | —             | —         | —                  | —         | —                      | —         | —            | —        | —                                      | —         | —               | —         | —            | —         |   |
| Other Infective and Parasitic<br>Diseases  | —                     | —        | —               | —        | —                  | —         | 1                 | 1         | —                  | 1        | —              | —        | 1                                  | 1         | —                                | —         | —                 | 1        | —             | —         | —                  | —         | 1                      | —         | —            | —        | —                                      | —         | 1               | —         | —            | —         |   |
| Malignant Neoplasm,<br>Stomach             | —                     | —        | 3               | 1        | 3                  | 3         | 3                 | 5         | 3                  | 1        | —              | —        | 3                                  | —         | 2                                | 8         | 2                 | 1        | 11            | 5         | 5                  | 3         | 6                      | 3         | 2            | 1        | 5                                      | 4         | 1               | 8         | 7            | 11        |   |
| Malignant Neoplasm,<br>Lung Bronchus       | 6                     | —        | 4               | —        | 18                 | 4         | 30                | 3         | 2                  | —        | 2              | 1        | 15                                 | 1         | 13                               | 2         | 2                 | 1        | 21            | 4         | 8                  | 3         | 25                     | 2         | 5            | 1        | 9                                      | 2         | 11              | 2         | 19           | 3         |   |
| Malignant Neoplasm,<br>Breast              | —                     | 1        | —               | 2        | —                  | 13        | —                 | 13        | —                  | 2        | —              | 1        | —                                  | 4         | 1                                | 6         | —                 | 2        | —             | 7         | —                  | 2         | —                      | 13        | —            | 3        | 1                                      | 4         | —               | 6         | —            | 2         |   |
| Malignant Neoplasm,<br>Uterus              | —                     | —        | —               | —        | —                  | 3         | —                 | 3         | —                  | —        | —              | —        | —                                  | 1         | —                                | 4         | —                 | 3        | —             | 5         | —                  | 7         | —                      | 3         | —            | —        | —                                      | 3         | —               | 3         | —            | 4         |   |
| Other Malignant and<br>Lymphatic Neoplasms | 1                     | 5        | 2               | 4        | 19                 | 20        | 29                | 36        | 9                  | 4        | 2              | 2        | 7                                  | 17        | 24                               | 22        | 9                 | 4        | 27            | 18        | 10                 | 12        | 16                     | 11        | 10           | 8        | 10                                     | 18        | 12              | 30        | 14           | 12        |   |
| Leukaemia, Aleukaemia                      | —                     | —        | —               | —        | 1                  | —         | 5                 | 2         | —                  | —        | —              | —        | 1                                  | —         | 3                                | 2         | —                 | 1        | 1             | 1         | —                  | —         | 2                      | 2         | 1            | 1        | —                                      | 2         | 1               | 2         | —            | 1         |   |
| Diabetes                                   | —                     | —        | —               | —        | 2                  | 1         | —                 | 1         | —                  | 1        | —              | —        | 1                                  | 1         | 2                                | —         | —                 | —        | 6             | 5         | —                  | 2         | —                      | 1         | 2            | —        | 1                                      | 2         | —               | —         | 1            | 3         |   |
| Vascular Lesions of Nervous<br>System      | 4                     | 5        | 4               | 4        | 29                 | 43        | 46                | 46        | 9                  | 6        | 2              | 7        | 17                                 | 26        | 32                               | 48        | 14                | 24       | 54            | 46        | 18                 | 23        | 15                     | 26        | 13           | 21       | 20                                     | 35        | 14              | 45        | 38           | 54        |   |
| Coronary Disease, Angina                   | 7                     | 8        | 6               | 1        | 50                 | 36        | 87                | 65        | 8                  | 11       | 6              | 2        | 25                                 | 18        | 63                               | 30        | 32                | 11       | 87            | 32        | 25                 | 23        | 50                     | 31        | 20           | 9        | 44                                     | 23        | 72              | 52        | 56           | 55        |   |
| Hypertension with Heart<br>Disease         | 1                     | 2        | 1               | —        | 1                  | 8         | 4                 | 4         | —                  | —        | 1              | 2        | 1                                  | 4         | 1                                | 3         | —                 | —        | 3             | 2         | 2                  | 4         | 1                      | —         | 1            | 2        | 2                                      | 1         | 4               | 3         | 1            | 6         |   |
| Other Heart Disease                        | 2                     | 10       | 2               | 5        | 16                 | 29        | 17                | 31        | 7                  | 2        | 1              | 10       | 6                                  | 17        | 17                               | 35        | 4                 | 7        | 31            | 33        | 13                 | 20        | 12                     | 18        | 11           | 16       | 10                                     | 21        | 10              | 17        | 16           | 31        |   |
| Other Circulatory Disease                  | 1                     | 3        | 3               | 3        | 4                  | 13        | 12                | 12        | —                  | 4        | 4              | 4        | 3                                  | 3         | 5                                | 20        | 5                 | 7        | 10            | 9         | 5                  | 9         | 8                      | 9         | 3            | 5        | 11                                     | 14        | 10              | 24        | 9            | 15        |   |
| Influenza                                  | —                     | —        | 1               | —        | —                  | —         | —                 | 1         | —                  | 1        | —              | —        | —                                  | —         | —                                | —         | —                 | —        | —             | —         | 1                  | —         | —                      | —         | —            | —        | —                                      | —         | —               | —         | 1            | 1         |   |
| Pneumonia                                  | 1                     | 1        | —               | 2        | 6                  | 5         | 30                | 41        | 3                  | 2        | 3              | 2        | 8                                  | 6         | 6                                | 11        | 3                 | 12       | 17            | 6         | 6                  | 5         | 15                     | 14        | 3            | 1        | 5                                      | 5         | 10              | 14        | 5            | 10        |   |
| Bronchitis                                 | 2                     | —        | 8               | 2        | 21                 | 7         | 18                | 6         | 3                  | 1        | 3              | —        | 6                                  | 6         | 19                               | 12        | 9                 | 6        | 36            | 16        | 9                  | 2         | 11                     | 5         | 11           | 2        | 10                                     | 8         | 8               | 7         | 21           | 12        |   |
| Other Diseases of<br>Respiratory System    | —                     | —        | —               | 1        | 1                  | 1         | 1                 | 1         | —                  | 2        | —              | —        | 2                                  | —         | 1                                | 2         | 1                 | 1        | 2             | —         | 1                  | 1         | 1                      | —         | —            | —        | —                                      | 4         | 1               | 3         | 3            | 5         | 1 |
| Ulcer of Stomach and<br>Duodenum           | —                     | —        | —               | —        | 4                  | 2         | 1                 | —         | —                  | —        | —              | —        | —                                  | 2         | 1                                | 1         | —                 | —        | 5             | 3         | 1                  | 1         | —                      | —         | 2            | —        | —                                      | —         | 1               | 2         | 2            | 1         |   |
| Gastritis, Enteritis and<br>Diarrhoea      | —                     | —        | —               | —        | 1                  | 1         | 2                 | 7         | —                  | —        | —              | —        | —                                  | —         | 1                                | 4         | —                 | 2        | 2             | 1         | 1                  | 1         | 1                      | —         | 1            | —        | —                                      | —         | —               | —         | 2            | 3         |   |
| Nephritis and Nephrosis                    | —                     | —        | —               | 1        | —                  | 2         | 1                 | —         | 1                  | 1        | —              | —        | 1                                  | —         | —                                | —         | 3                 | —        | 2             | 1         | 2                  | —         | 4                      | 2         | —            | —        | 1                                      | —         | 1               | 3         | 1            | 1         |   |
| Hyperplasia of Prostate                    | —                     | —        | 1               | —        | 3                  | —         | 3                 | —         | 1                  | —        | —              | —        | 1                                  | —         | 1                                | —         | 1                 | —        | 3             | —         | 2                  | —         | —                      | —         | —            | —        | —                                      | —         | —</             |           |              |           |   |



TABLE A—(Urban ii).

| CAUSES OF DEATH.                                 | Knutsford U.D. |     | Longden-<br>dale U.D. |    | Lymm U.D. |    | Maccles-<br>field M.B. |     | Marple U.D. |     | Middle-<br>wich U.D. |    | Nantwich U.D. |    | Neston U.D. |    | Northwich U.D. |     | Runcorn U.D. |     | Sale M.B. |     | Sandbach U.D. |    | Staly-<br>bridge M.B. |     | Wilmslow U.D. |     | Winsford U.D. |    | Wirral U.D. |     |
|--------------------------------------------------|----------------|-----|-----------------------|----|-----------|----|------------------------|-----|-------------|-----|----------------------|----|---------------|----|-------------|----|----------------|-----|--------------|-----|-----------|-----|---------------|----|-----------------------|-----|---------------|-----|---------------|----|-------------|-----|
|                                                  | M.             | F.  | M.                    | F. | M.        | F. | M.                     | F.  | M.          | F.  | M.                   | F. | M.            | F. | M.          | F. | M.             | F.  | M.           | F.  | M.        | F.  | M.            | F. | M.                    | F.  | M.            | F.  | M.            | F. | M.          | F.  |
| ALL CAUSES — — —                                 | 88             | 119 | 37                    | 29 | 31        | 43 | 280                    | 288 | 101         | 109 | 46                   | 56 | 63            | 65 | 60          | 67 | 131            | 137 | 156          | 122 | 247       | 245 | 77            | 62 | 145                   | 149 | 123           | 112 | 90            | 73 | 137         | 126 |
| 1 Tuberculosis, Respiratory — — —                | 1              | —   | —                     | —  | —         | —  | 2                      | —   | —           | 1   | 1                    | —  | —             | —  | —           | —  | 1              | —   | 1            | —   | 2         | —   | 1             | —  | —                     | —   | —             | —   | 1             | —  | —           | —   |
| 2 Tuberculosis, Other — — —                      | —              | —   | —                     | —  | —         | —  | —                      | —   | —           | —   | —                    | —  | 1             | 2  | —           | —  | —              | —   | —            | —   | —         | —   | —             | —  | 1                     | —   | —             | —   | —             | —  | —           | —   |
| 3 Syphilitic Disease — — —                       | —              | —   | —                     | —  | —         | —  | —                      | —   | —           | —   | —                    | —  | —             | —  | —           | —  | —              | —   | —            | —   | —         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | —           | 1   |
| 4 Diphtheria — — —                               | —              | —   | —                     | —  | —         | —  | —                      | —   | —           | —   | —                    | —  | —             | —  | —           | —  | —              | —   | —            | —   | —         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | —           | —   |
| 5 Whooping Cough — — —                           | —              | —   | —                     | —  | —         | —  | —                      | —   | —           | —   | —                    | —  | —             | —  | —           | —  | —              | —   | —            | —   | —         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | —           | —   |
| 6 Meningococcal Infections — — —                 | —              | —   | —                     | —  | —         | —  | —                      | —   | —           | —   | —                    | —  | —             | —  | —           | —  | —              | —   | 1            | —   | —         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | —           | —   |
| 7 Acute Poliomyelitis — — —                      | —              | —   | —                     | —  | —         | —  | —                      | —   | —           | —   | —                    | —  | —             | —  | —           | —  | —              | —   | —            | —   | —         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | —           | —   |
| 8 Measles — — —                                  | —              | —   | —                     | —  | —         | —  | —                      | —   | —           | —   | —                    | —  | —             | —  | —           | —  | —              | —   | —            | —   | —         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | —           | —   |
| 9 Other Infective and Parasitic Diseases — — —   | —              | —   | —                     | —  | —         | —  | 1                      | 1   | —           | —   | —                    | 1  | —             | —  | —           | —  | —              | —   | 1            | —   | —         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | 1           | —   |
| 10 Malignant Neoplasm, Stomach — — —             | 2              | —   | 2                     | —  | 2         | 1  | 11                     | 5   | 1           | 1   | —                    | 2  | 3             | 1  | —           | 1  | 5              | 4   | 7            | 3   | 5         | 7   | 1             | 1  | 7                     | 2   | 7             | 5   | 2             | 1  | 3           | 2   |
| 11 Malignant Neoplasm, Lung Bronchus — — —       | 4              | 1   | —                     | —  | 2         | 1  | 29                     | 7   | 10          | 1   | 5                    | 3  | —             | —  | 3           | —  | 9              | 2   | 7            | 3   | 20        | 5   | 4             | —  | 15                    | 2   | 6             | 1   | 5             | —  | 12          | 2   |
| 12 Malignant Neoplasm, Breast — — —              | —              | 4   | —                     | 1  | —         | 3  | 1                      | 9   | —           | 3   | —                    | 3  | 1             | 2  | —           | 3  | —              | 6   | —            | 4   | —         | 10  | —             | 4  | —                     | 5   | —             | 6   | —             | 2  | —           | 7   |
| 13 Malignant Neoplasm, Uterus — — —              | —              | 2   | —                     | —  | —         | 1  | —                      | 2   | —           | 1   | —                    | 2  | —             | 2  | —           | —  | —              | —   | 4            | —   | 6         | —   | 1             | —  | 3                     | —   | 1             | —   | 1             | —  | 3           |     |
| 14 Other Malignant and Lymphatic Neoplasms — — — | 5              | 7   | 2                     | 2  | 2         | 3  | 25                     | 23  | 11          | 3   | 3                    | —  | 3             | 5  | 3           | 5  | 6              | 9   | 13           | 7   | 23        | 26  | 8             | 5  | 13                    | 11  | 13            | 16  | 9             | 6  | 13          | 12  |
| 15 Leukaemia, Aleukaemia — — —                   | 1              | 1   | 1                     | —  | —         | —  | —                      | —   | —           | —   | —                    | 1  | 1             | —  | —           | —  | 1              | 2   | —            | —   | 2         | 1   | —             | 1  | —                     | 1   | 1             | 1   | 1             | —  | 1           | —   |
| 16 Diabetes — — —                                | —              | —   | —                     | —  | 1         | —  | 3                      | 2   | 1           | —   | —                    | —  | 1             | 2  | 1           | 1  | 2              | 1   | —            | 2   | 1         | 1   | 1             | —  | —                     | 4   | —             | —   | —             | —  | —           | —   |
| 17 Vascular Lesions of Nervous System — — —      | 16             | 29  | 5                     | 5  | 2         | 8  | 31                     | 41  | 17          | 31  | 3                    | 9  | 11            | 19 | 6           | 13 | 12             | 26  | 15           | 20  | 33        | 45  | 10            | 10 | 13                    | 31  | 18            | 18  | 10            | 9  | 17          | 17  |
| 18 Coronary Disease, Angina — — —                | 9              | 13  | 12                    | 11 | 8         | 5  | 64                     | 55  | 28          | 18  | 9                    | 6  | 12            | 9  | 23          | 20 | 27             | 20  | 42           | 17  | 67        | 34  | 20            | 15 | 35                    | 20  | 30            | 19  | 23            | 11 | 44          | 28  |
| 19 Hypertension with Heart Disease — — —         | —              | 1   | —                     | —  | —         | 2  | 2                      | 13  | 1           | —   | 1                    | —  | 1             | 3  | 1           | —  | 3              | 1   | 2            | 5   | 4         | 5   | —             | —  | 2                     | 4   | 1             | 1   | —             | 1  | 2           | 6   |
| 20 Other Heart Disease— — —                      | 15             | 16  | 1                     | 4  | —         | 6  | 30                     | 49  | 1           | 21  | 2                    | 10 | 11            | 7  | 4           | 7  | 10             | 25  | 9            | 13  | 20        | 33  | 3             | 8  | 11                    | 26  | 11            | 8   | 6             | 8  | 10          | 13  |
| 21 Other Circulatory Disease — — —               | 3              | 4   | 6                     | —  | 1         | 4  | 5                      | 13  | 4           | 4   | —                    | 2  | —             | 2  | 3           | 4  | 13             | 10  | 5            | 10  | 9         | 13  | 4             | 2  | 4                     | 7   | 7             | 9   | 3             | 5  | 5           | 7   |
| 22 Influenza — — —                               | —              | —   | —                     | —  | —         | —  | 1                      | 1   | —           | —   | —                    | —  | —             | —  | —           | —  | 2              | 3   | —            | —   | 1         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | —           | —   |
| 23 Pneumonia — — —                               | 4              | 6   | 3                     | 2  | 2         | 1  | 24                     | 23  | 5           | 5   | 3                    | —  | 4             | 6  | 2           | 4  | 2              | 3   | 6            | 4   | 8         | 2   | 6             | 1  | 5                     | 2   | 3             | 6   | 4             | 5  | 7           | 14  |
| 24 Bronchitis — — —                              | 5              | 3   | —                     | 1  | 4         | —  | 10                     | 8   | 5           | 1   | 6                    | 1  | 5             | —  | 6           | 1  | 18             | 6   | 17           | 5   | 19        | 8   | 4             | 2  | 9                     | 6   | 6             | 1   | 7             | 2  | 4           | —   |
| 25 Other Diseases of Respiratory System — — —    | 2              | —   | —                     | —  | 1         | 2  | 3                      | 3   | 2           | —   | —                    | —  | —             | —  | —           | —  | 2              | 2   | 2            | 1   | 3         | 2   | —             | —  | 2                     | 3   | 2             | 1   | —             | 1  | 1           | 1   |
| 26 Ulcer of Stomach and Duodenum — — —           | 1              | —   | —                     | —  | —         | —  | 1                      | —   | 1           | 1   | —                    | 1  | 1             | —  | 1           | —  | —              | —   | —            | —   | 2         | —   | —             | —  | 4                     | —   | 1             | 2   | 1             | 1  | —           | 1   |
| 27 Gastritis, Enteritis and Diarrhoea — — —      | —              | —   | —                     | —  | —         | —  | —                      | —   | 1           | —   | 1                    | —  | 1             | 1  | 1           | 1  | 1              | 3   | 1            | 2   | 2         | 2   | —             | —  | 2                     | —   | 1             | 2   | 1             | —  | —           | —   |
| 28 Nephritis and Nephrosis — — —                 | —              | —   | —                     | —  | 1         | —  | 1                      | —   | —           | 2   | 2                    | —  | 1             | —  | —           | 2  | 2              | —   | 1            | 1   | —         | 1   | 3             | —  | 1                     | —   | —             | —   | —             | 2  | 2           | —   |
| 29 Hyperplasia of Prostate — — —                 | —              | —   | —                     | —  | 1         | —  | 6                      | —   | —           | —   | 1                    | —  | 2             | —  | —           | —  | —              | —   | 3            | —   | 3         | —   | 2             | —  | —                     | —   | 1             | —   | —             | —  | 1           | —   |
| 30 Pregnancy, Childbirth, Abortion — — —         | —              | —   | —                     | —  | —         | —  | —                      | 1   | —           | —   | —                    | —  | —             | —  | —           | —  | —              | —   | —            | —   | 2         | —   | —             | —  | —                     | —   | —             | —   | —             | —  | —           | —   |
| 31 Congenital Malformations — — —                | —              | 1   | —                     | —  | —         | —  | 4                      | —   | —           | —   | 1                    | 1  | —             | —  | —           | —  | 2              | 3   | 2            | 2   | 1         | 3   | —             | 2  | —                     | 2   | 1             | —   | 2             | 1  | 3           | 1   |
| 32 Other Defined and Ill-defined Diseases — — —  | 17             | 28  | 2                     | 3  | 1         | 5  | 14                     | 17  | 10          | 14  | 4                    | 12 | 1             | 4  | 5           | 4  | 6              | 9   |              |     |           |     |               |    |                       |     |               |     |               |    |             |     |



TABLE A—(Rural).

| CAUSES OF DEATH.                                   | Bucklow R.D. |     | Chester R.D. |     | Congleton R.D. |     | Disley R.D. |    | Macclesfield R.D. |     | Nantwich R.D. |     | Northwich R.D. |     | Runcorn R.D. |     | Tarvin R.D. |     | Tintwistle R.D. |    |
|----------------------------------------------------|--------------|-----|--------------|-----|----------------|-----|-------------|----|-------------------|-----|---------------|-----|----------------|-----|--------------|-----|-------------|-----|-----------------|----|
|                                                    | M.           | F.  | M.           | F.  | M.             | F.  | M.          | F. | M.                | F.  | M.            | F.  | M.             | F.  | M.           | F.  | M.          | F.  | M.              | F. |
| ALL CAUSES — — —                                   | 77           | 58  | 211          | 218 | 114            | 115 | 22          | 23 | 123               | 116 | 199           | 159 | 214            | 182 | 235          | 233 | 108         | 85  | 14              | 5  |
| 1 Tuberculosis, Respiratory —                      | 1            | —   | 1            | —   | —              | —   | 1           | —  | —                 | —   | —             | —   | 1              | —   | —            | 1   | 2           | —   | —               | —  |
| 2 Tuberculosis, Other —                            | —            | 1   | —            | 1   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | —            | —   | —           | —   | —               | —  |
| 3 Syphilitic Disease —                             | 1            | —   | —            | 2   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | —            | 1   | —           | —   | —               | —  |
| 4 Diphtheria — —                                   | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | —            | —   | —           | —   | —               | —  |
| 5 Whooping Cough —                                 | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | —            | —   | —           | —   | —               | —  |
| 6 Meningococcal Infections —                       | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | 1   | —              | —   | —            | —   | —           | —   | —               | —  |
| 7 Acute Poliomyelitis —                            | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | —            | —   | —           | —   | —               | —  |
| 8 Measles — —                                      | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | —            | —   | —           | —   | —               | —  |
| 9 Other Infective and Parasitic Diseases —         | —            | —   | —            | —   | —              | —   | —           | 1  | —                 | —   | 1             | —   | —              | —   | 1            | 1   | —           | 1   | 1               | —  |
| 10 Malignant Neoplasm, Stomach —                   | 1            | 2   | 6            | 2   | 2              | 2   | —           | 1  | 4                 | 3   | 6             | 3   | 4              | 5   | 6            | 1   | 3           | —   | 1               | —  |
| 11 Malignant Neoplasm, Lung Bronchus —             | 8            | 2   | 17           | 1   | 7              | —   | 3           | —  | 11                | —   | 8             | —   | 16             | 1   | 12           | 5   | 13          | —   | —               | —  |
| 12 Malignant Neoplasm, Breast —                    | —            | 2   | 1            | 6   | —              | 2   | —           | 3  | —                 | 4   | —             | 9   | —              | 8   | —            | 6   | —           | 1   | —               | —  |
| 13 Malignant Neoplasm, Uterus —                    | —            | —   | —            | 6   | —              | 1   | —           | —  | —                 | 2   | —             | 7   | —              | 10  | —            | 2   | —           | 2   | —               | 1  |
| 14 Other Malignant and Lymphatic Neoplasms —       | 10           | 5   | 15           | 15  | 3              | 5   | 2           | 1  | 9                 | 4   | 15            | 14  | 20             | 16  | 19           | 18  | 12          | 2   | —               | 1  |
| 15 Leukaemia, Aleukaemia —                         | 1            | 2   | 2            | —   | 1              | 1   | —           | —  | 1                 | 1   | —             | 1   | 1              | 2   | 1            | 1   | —           | 1   | —               | —  |
| 16 Diabetes — —                                    | —            | —   | 2            | —   | 1              | —   | —           | —  | —                 | 2   | 3             | 5   | 1              | 2   | —            | 6   | 1           | 1   | —               | —  |
| 17 Vascular Lesions of Nervous System —            | 11           | 13  | 35           | 44  | 9              | 14  | 8           | 6  | 8                 | 25  | 25            | 35  | 35             | 25  | 35           | 35  | 15          | 23  | 4               | —  |
| 18 Coronary Disease, Angina —                      | 17           | 15  | 42           | 29  | 28             | 12  | 3           | —  | 35                | 16  | 56            | 26  | 47             | 25  | 77           | 42  | 25          | 7   | 3               | 1  |
| 19 Hypertension with Heart Disease —               | —            | 1   | 1            | 7   | —              | —   | —           | —  | 2                 | 1   | 1             | 2   | 4              | 1   | 1            | 6   | 2           | 4   | —               | —  |
| 20 Other Heart Disease —                           | 1            | 5   | 22           | 32  | 4              | 10  | 1           | 3  | 10                | 12  | 25            | 21  | 21             | 33  | 16           | 30  | 5           | 12  | —               | 2  |
| 21 Other Circulatory Disease —                     | 5            | —   | 9            | 9   | 3              | 8   | —           | 2  | 1                 | 4   | 9             | 7   | 9              | 7   | 12           | 16  | 4           | 7   | 2               | —  |
| 22 Influenza — —                                   | —            | —   | —            | —   | —              | —   | —           | —  | —                 | 1   | —             | —   | —              | 1   | —            | —   | —           | —   | —               | —  |
| 23 Pneumonia — —                                   | 4            | 1   | 13           | 26  | 11             | 7   | —           | 1  | 6                 | 16  | 5             | 2   | 13             | 13  | 10           | 12  | 3           | 4   | —               | —  |
| 24 Bronchitis — —                                  | 2            | 2   | 7            | 3   | 4              | 1   | 3           | 1  | 8                 | 4   | 13            | 2   | 6              | 8   | 20           | 10  | 7           | 1   | 2               | —  |
| 25 Other Diseases of Respiratory System —          | 1            | —   | 1            | 2   | 2              | 1   | —           | —  | 2                 | 2   | 4             | 2   | 1              | —   | 2            | 2   | 2           | —   | —               | —  |
| 26 Ulcer of Stomach and Duodenum —                 | —            | —   | 3            | —   | 1              | —   | —           | —  | 1                 | 1   | 1             | 1   | 2              | —   | 1            | 2   | 1           | 1   | —               | —  |
| 27 Gastritis, Enteritis and Diarrhoea —            | —            | —   | —            | —   | 1              | —   | —           | —  | 2                 | —   | 1             | 1   | 1              | —   | —            | 2   | —           | —   | —               | —  |
| 28 Nephritis and Nephrosis —                       | —            | —   | —            | 2   | 1              | 1   | —           | —  | 1                 | 1   | —             | —   | 1              | —   | 3            | 1   | 1           | 2   | —               | —  |
| 29 Hyperplasia of Prostate —                       | 3            | —   | 5            | —   | —              | —   | 1           | —  | 1                 | —   | 6             | —   | 4              | —   | 3            | —   | 2           | —   | —               | —  |
| 30 Pregnancy, Childbirth, Abortion —               | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | —            | 1   | —           | —   | —               | —  |
| 31 Congenital Malformations —                      | —            | —   | 3            | 4   | 1              | —   | —           | 2  | 1                 | 2   | 2             | 3   | 1              | 1   | 2            | 1   | 1           | —   | —               | —  |
| 32 Other Defined and Ill-defined Diseases —        | 7            | 5   | 9            | 20  | 31             | 48  | —           | —  | 17                | 8   | 10            | 14  | 12             | 18  | 9            | 20  | 4           | 10  | —               | —  |
| 33 Motor Vehicle Accidents —                       | 1            | 1   | 8            | 4   | 3              | —   | —           | —  | 2                 | 4   | 2             | —   | 9              | 4   | 3            | 2   | 4           | 2   | —               | —  |
| 34 All Other Accidents —                           | 2            | —   | 9            | 3   | —              | 2   | —           | —  | —                 | 3   | 5             | 2   | 4              | 2   | 1            | 6   | 1           | 3   | 1               | —  |
| 35 Suicide — —                                     | 1            | 1   | —            | —   | 1              | —   | —           | 2  | 1                 | —   | 1             | 1   | 1              | —   | 1            | 3   | —           | 1   | —               | —  |
| 36 Homicide & Operations of War —                  | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | —            | —   | —           | —   | —               | —  |
| LIVE BIRTHS—Total —                                | 183          | 201 | 286          | 276 | 127            | 109 | 41          | 24 | 181               | 223 | 244           | 207 | 315            | 300 | 413          | 354 | 123         | 135 | 8               | 18 |
| Legitimate —                                       | 172          | 195 | 271          | 263 | 124            | 105 | 38          | 24 | 174               | 218 | 233           | 197 | 301            | 284 | 395          | 344 | 118         | 132 | 8               | 18 |
| Illegitimate —                                     | 11           | 6   | 15           | 13  | 3              | 4   | 3           | —  | 7                 | 5   | 11            | 10  | 14             | 16  | 18           | 10  | 5           | 3   | —               | —  |
| STILLBIRTHS —Total —                               | 7            | 1   | 6            | 3   | 2              | 1   | —           | 4  | 3                 | 4   | 1             | 5   | 2              | 5   | 6            | 3   | 3           | —   | —               | —  |
| Legitimate —                                       | 7            | 1   | 5            | 3   | 2              | 1   | —           | 4  | 3                 | 4   | 1             | 5   | 2              | 5   | 4            | 3   | 3           | —   | —               | —  |
| Illegitimate —                                     | —            | —   | 1            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | 2            | —   | —           | —   | —               | —  |
| Deaths of Infants (under one year) { Total —       | 5            | 2   | 3            | 6   | 4              | 1   | —           | 3  | 3                 | 3   | 4             | 4   | 6              | 1   | 9            | 6   | 1           | 2   | —               | —  |
| Legitimate —                                       | 5            | 2   | 3            | 6   | 4              | 1   | —           | 3  | 3                 | 3   | 4             | 4   | 6              | 1   | 7            | 6   | 1           | 2   | —               | —  |
| Illegitimate —                                     | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | 2            | —   | —           | —   | —               | —  |
| Deaths of Infants (under 4 weeks of age) { Total — | 2            | —   | 2            | 4   | 3              | —   | —           | 2  | 2                 | 1   | 2             | 3   | 5              | 1   | 8            | 6   | —           | 2   | —               | —  |
| Legitimate —                                       | 2            | —   | 2            | 4   | 3              | —   | —           | 2  | 2                 | 1   | 2             | 3   | 5              | 1   | 6            | 6   | —           | 2   | —               | —  |
| Illegitimate —                                     | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | 2            | —   | —           | —   | —               | —  |
| Deaths of Infants (under 1 week of age) { Total —  | 2            | —   | 2            | 2   | 3              | —   | —           | 2  | 2                 | 1   | —             | 3   | 4              | 1   | 7            | 6   | —           | 2   | —               | —  |
| Legitimate —                                       | 2            | —   | 2            | 2   | 3              | —   | —           | 2  | 2                 | 1   | —             | 3   | 4              | 1   | 5            | 6   | —           | 2   | —               | —  |
| Illegitimate —                                     | —            | —   | —            | —   | —              | —   | —           | —  | —                 | —   | —             | —   | —              | —   | 2            | —   | —           | —   | —               | —  |



TABLE B

| CAUSES OF DEATH.                           | Sex. | AGGREGATE OF URBAN DISTRICTS |                  |                                   |              |    |     |     |     |     |     |     |                | AGGREGATE OF RURAL DISTRICTS |                  |                                   |              |    |     |     |     |     |     |     |                |
|--------------------------------------------|------|------------------------------|------------------|-----------------------------------|--------------|----|-----|-----|-----|-----|-----|-----|----------------|------------------------------|------------------|-----------------------------------|--------------|----|-----|-----|-----|-----|-----|-----|----------------|
|                                            |      | Total<br>All<br>Ages         | under<br>4 weeks | 4 weeks<br>and<br>under<br>1 year | AGE IN YEARS |    |     |     |     |     |     |     |                | Total<br>All<br>Ages         | under<br>4 weeks | 4 weeks<br>and<br>under<br>1 year | AGE IN YEARS |    |     |     |     |     |     |     |                |
|                                            |      |                              |                  |                                   | 1—           | 5— | 15— | 25— | 35— | 45— | 55— | 65— | 75 and<br>over |                              |                  |                                   | 1—           | 5— | 15— | 25— | 35— | 45— | 55— | 65— | 75 and<br>over |
| 1 Tuberculosis, Respiratory                | M    | 24                           | —                | —                                 | —            | —  | —   | 1   | 1   | 2   | 9   | 7   | 4              | 6                            | —                | —                                 | —            | —  | —   | 1   | —   | —   | 2   | 2   | 1              |
|                                            | F    | 2                            | —                | —                                 | —            | —  | —   | —   | —   | 1   | —   | 1   | —              | 1                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | 1              |
| 2 Tuberculosis, Other                      | M    | 1                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | 1              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | 1                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | 1              | 2                            | —                | —                                 | —            | —  | —   | —   | —   | —   | 1   | 1   | —              |
| 3 Syphilitic Disease                       | M    | 7                            | —                | —                                 | —            | —  | —   | —   | —   | 1   | —   | 3   | 3              | 1                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | 1   | —              |
|                                            | F    | 6                            | —                | —                                 | —            | —  | —   | —   | —   | —   | 2   | 2   | 2              | 3                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | 2              |
| 4 Diphtheria                               | M    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
| 5 Whooping Cough                           | M    | 1                            | —                | 1                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
| 6 Meningococcal Infections                 | M    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | 1                            | 1                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | 1                            | —                | —                                 | —            | 1  | —   | —   | —   | —   | —   | —   | —              |
| 7 Acute Poliomyelitis                      | M    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
| 8 Measles                                  | M    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
| 9 Other Infective and Parasitic Diseases   | M    | 5                            | —                | 1                                 | —            | —  | —   | —   | —   | 2   | —   | 1   | 1              | 3                            | —                | —                                 | —            | 1  | —   | —   | —   | —   | 1   | 1   | —              |
|                                            | F    | 8                            | 1                | —                                 | —            | —  | 1   | 1   | 2   | —   | —   | 1   | 2              | 3                            | —                | —                                 | —            | 1  | —   | —   | —   | 1   | —   | —   | 1              |
| 10 Malignant Neoplasm, Stomach             | M    | 114                          | —                | —                                 | —            | —  | —   | 1   | 1   | 9   | 32  | 42  | 29             | 33                           | —                | —                                 | —            | —  | —   | —   | —   | 2   | 10  | 9   | 12             |
|                                            | F    | 90                           | —                | —                                 | —            | —  | —   | —   | 2   | 4   | 17  | 33  | 34             | 19                           | —                | —                                 | —            | —  | —   | —   | 1   | 3   | 3   | —   | 12             |
| 11 Malignant Neoplasm, Lung Bronchus       | M    | 321                          | —                | —                                 | —            | —  | —   | 1   | 9   | 44  | 114 | 104 | 49             | 95                           | —                | —                                 | —            | —  | —   | —   | 2   | 10  | 37  | 32  | 14             |
|                                            | F    | 57                           | —                | —                                 | —            | —  | —   | —   | 4   | 8   | 23  | 15  | 7              | 9                            | —                | —                                 | —            | —  | —   | —   | 1   | 1   | 3   | 4   | —              |
| 12 Malignant Neoplasm, Breast              | M    | 4                            | —                | —                                 | —            | —  | —   | —   | —   | 2   | —   | —   | 2              | —                            | 1                | —                                 | —            | —  | —   | —   | —   | —   | 1   | —   | —              |
|                                            | F    | 153                          | —                | —                                 | —            | —  | —   | 2   | 11  | 27  | 45  | 35  | 33             | 41                           | —                | —                                 | —            | —  | —   | 1   | 3   | 10  | 13  | 7   | 7              |
| 13 Malignant Neoplasm, Uterus              | M    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | 68                           | —                | —                                 | —            | —  | —   | 1   | 5   | 15  | 19  | 12  | 16             | 31                           | —                | —                                 | —            | —  | —   | —   | 3   | 11  | 8   | 6   | 3              |
| 14 Other Malignant and Lymphatic Neoplasms | M    | 353                          | —                | 1                                 | 4            | 2  | 4   | 7   | 13  | 45  | 95  | 96  | 86             | 105                          | —                | —                                 | —            | 1  | 1   | 4   | 7   | 9   | 19  | 39  | 25             |
|                                            | F    | 363                          | —                | 1                                 | —            | —  | 1   | 3   | 10  | 45  | 67  | 104 | 132            | 81                           | —                | —                                 | —            | 2  | —   | 1   | —   | 7   | 28  | 23  | 18             |
| 15 Leukaemia, Aleukaemia                   | M    | 22                           | —                | —                                 | 1            | 5  | 3   | 1   | 2   | 1   | 3   | 3   | 3              | 7                            | —                | —                                 | —            | 1  | —   | 1   | —   | 2   | 1   | —   | 2              |
|                                            | F    | 24                           | —                | 1                                 | —            | 1  | 1   | 1   | —   | 2   | 8   | 4   | 6              | 9                            | —                | —                                 | 1            | —  | —   | —   | 1   | 1   | 3   | 1   | 2              |
| 16 Diabetes                                | M    | 26                           | —                | —                                 | 1            | —  | —   | —   | 1   | —   | 5   | 10  | 9              | 8                            | —                | —                                 | —            | —  | —   | —   | 1   | —   | 3   | —   | 4              |
|                                            | F    | 30                           | —                | —                                 | —            | 1  | —   | —   | 1   | 2   | 4   | 15  | 7              | 16                           | —                | —                                 | —            | —  | —   | —   | 1   | 1   | 2   | 6   | 6              |
| 17 Vascular Lesions of Nervous System      | M    | 548                          | —                | —                                 | —            | —  | 1   | —   | 5   | 22  | 89  | 172 | 259            | 185                          | —                | —                                 | —            | —  | —   | —   | 4   | 9   | 23  | 67  | 82             |
|                                            | F    | 790                          | —                | —                                 | —            | 1  | 1   | 3   | 9   | 23  | 82  | 209 | 462            | 220                          | —                | —                                 | —            | —  | 1   | 1   | 3   | 6   | 18  | 43  | 148            |
| 18 Coronary Disease, Angina                | M    | 1,091                        | —                | —                                 | —            | —  | —   | —   | 38  | 99  | 306 | 358 | 290            | 333                          | —                | —                                 | —            | —  | —   | —   | 8   | 31  | 91  | 110 | 93             |
|                                            | F    | 708                          | —                | —                                 | —            | —  | —   | 2   | 8   | 19  | 104 | 226 | 349            | 173                          | —                | —                                 | —            | —  | —   | —   | 1   | 7   | 30  | 53  | 82             |
| 19 Hypertension with Heart Disease         | M    | 44                           | —                | —                                 | —            | —  | —   | —   | 2   | 1   | 12  | 13  | 16             | 11                           | —                | —                                 | —            | —  | —   | —   | —   | —   | 3   | 6   | 2              |
|                                            | F    | 83                           | —                | —                                 | —            | —  | —   | —   | 1   | 1   | 9   | 24  | 49             | 22                           | —                | —                                 | —            | —  | —   | —   | 1   | 1   | 11  | —   | 9              |
| 20 Other Heart Disease                     | M    | 319                          | —                | 1                                 | —            | —  | 2   | 4   | 4   | 11  | 32  | 85  | 180            | 105                          | —                | —                                 | —            | —  | —   | —   | 3   | 2   | 18  | 26  | 56             |
|                                            | F    | 556                          | —                | —                                 | —            | 1  | —   | —   | 8   | 21  | 27  | 113 | 386            | 160                          | —                | —                                 | —            | —  | —   | 2   | 4   | 5   | 16  | 28  | 105            |
| 21 Other Circulatory Disease               | M    | 165                          | —                | —                                 | —            | 1  | 1   | 1   | 1   | 5   | 25  | 33  | 98             | 54                           | —                | —                                 | —            | —  | 1   | —   | 1   | 5   | 10  | 9   | 28             |
|                                            | F    | 250                          | —                | —                                 | —            | —  | —   | —   | 2   | 3   | 11  | 50  | 184            | 60                           | —                | —                                 | —            | —  | —   | —   | 3   | 7   | 10  | —   | 40             |
| 22 Influenza                               | M    | 7                            | —                | 1                                 | —            | —  | —   | —   | —   | —   | —   | 1   | 5              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | 7                            | —                | —                                 | —            | —  | —   | —   | —   | —   | 1   | 1   | 5              | 2                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | 2              |
| 23 Pneumonia                               | M    | 209                          | 5                | 10                                | 5            | —  | —   | 7   | 7   | 22  | 51  | 102 | 65             | —                            | 5                | 2                                 | —            | 3  | 1   | —   | 1   | 8   | 17  | —   | 28             |
|                                            | F    | 221                          | 4                | 12                                | 4            | 1  | 1   | 1   | 2   | 3   | 13  | 30  | 150            | 82                           | 1                | 1                                 | 1            | 2  | 2   | 1   | —   | 2   | 2   | 12  | 58             |
| 24 Bronchitis                              | M    | 320                          | —                | 2                                 | 1            | —  | —   | —   | 3   | 19  | 88  | 106 | 101            | 72                           | —                | 1                                 | —            | —  | —   | —   | 1   | 3   | 16  | 27  | 24             |
|                                            | F    | 137                          | —                | 1                                 | —            | —  | 1   | 1   | 2   | 2   | 18  | 55  | 57             | 32                           | —                | 1                                 | —            | —  | —   | —   | 2   | —   | 3   | 6   | 20             |
| 25 Other Diseases of Respiratory System    | M    | 42                           | —                | —                                 | —            | 1  | —   | —   | —   | 2   | 14  | 12  | 13             | 15                           | —                | —                                 | 1            | —  | —   | —   | 1   | 1   | 5   | 6   | 1              |
|                                            | F    | 30                           | —                | —                                 | —            | —  | —   | 1   | —   | 1   | 5   | 6   | 17             | 9                            | —                | —                                 | —            | —  | —   | —   | 2   | —   | —   | 1   | 6              |
| 26 Ulcer of Stomach and Duodenum           | M    | 30                           | —                | —                                 | —            | —  | —   | 1   | 2   | 3   | 3   | 13  | 8              | 10                           | —                | —                                 | —            | —  | —   | —   | —   | —   | 4   | 4   | 2              |
|                                            | F    | 18                           | —                | —                                 | —            | —  | —   | —   | —   | —   | 1   | 7   | 10             | 5                            | —                | —                                 | —            | —  | —   | —   | —   | —   | 1   | —   | 4              |
| 27 Gastritis, Enteritis and Diarrhoea      | M    | 23                           | —                | 2                                 | 2            | —  | 1   | —   | 1   | —   | 3   | 7   | 7              | 5                            | —                | 2                                 | —            | —  | —   | —   | —   | —   | —   | 2   | 1              |
|                                            | F    | 30                           | —                | 4                                 | 1            | 1  | —   | 1   | —   | 1   | 3   | 6   | 13             | 3                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | 3              |
| 28 Nephritis and Nephrosis                 | M    | 31                           | —                | —                                 | —            | 1  | 2   | 2   | 3   | 2   | 10  | 7   | 4              | 7                            | —                | —                                 | —            | 1  | —   | —   | 1   | 1   | 1   | 2   | 1              |
|                                            | F    | 19                           | —                | —                                 | 1            | 1  | —   | —   | 1   | 2   | 3   | 5   | 6              | 7                            | —                | —                                 | —            | 1  | —   | —   | —   | 2   | 2   | —   | 2              |
| 29 Hyperplasia of Prostate                 | M    | 37                           | —                | —                                 | —            | —  | —   | —   | —   | —   | 2   | 14  | 21             | 25                           | —                | —                                 | —            | —  | —   | —   | —   | —   | 2   | 3   | 20             |
|                                            | F    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
| 30 Pregnancy, Childbirth, Abortion         | M    | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              | —                            | —                | —                                 | —            | —  | —   | —   | —   | —   | —   | —   | —              |
|                                            | F    | 3                            | —                | —                                 | —            | —  | —   | 2   | 1   | —   | —   | —   | —              | 1                            | —                | —                                 | —            | —  | —   | —   | 1   | —   | —   | —   | —              |
| 31 Congenital Malformations                | M    | 47                           | 22               | 17                                | 2            | 3  | 1   | —   | —   | —   | 1   | —   | 1              | 11                           | 5                | 1                                 | 2            | 1  | 1   | —   | —   | —   | 1   | —   | —              |
|                                            | F    | 45                           | 18               | 11                                | 6            | 4  | 1   | —   | 2   | 1   | 1   | 1   | —              | 13                           | 4                | 5                                 | —            | 1  | —   | 1   | 1   | —   | 1   | —   | —              |
| 32 Other Defined and Ill-defined Diseases  | M    | 315                          | 72               | 2                                 | 5            | 11 | 4   | 3   | 11  | 20  | 41  | 41  | 105            | 99                           | 18               | 2                                 | 1            | 2  | 1   | 1   | 2   | 5   | 10  | 15  | 42             |
|                                            | F    | 413                          | 63               | 4                                 | —            | —  | 5   | 3   | 10  | 16  | 39  | 75  | 198            | 143                          | 14               | 2                                 | 1            | —  | —   | 3   | 2   | 8   | 13  | 20  | 80             |
| 33 Motor Vehicle Accidents                 | M    | 81                           | —                | —                                 | 1            | 5  | 21  | 11  | 10  | 10  | 12  | 6   | 5              | 32                           | —                | —                                 | —            | 2  | 12  | 4   | 2   | 6   | 2   | 1   | 3              |
|                                            | F    | 30                           | —                | —                                 | 2            | 1  | 4   | 2   | 1   | 3   | 1   | 7   | 9              | 17                           | —                | —                                 | —            | —  | 5   | 3   | 1   | 3   | 1   | 4   | —              |
| 34 All Other Accidents                     | M    | 72                           | —                | 5                                 | 3            | 4  | 6   | 4   | 3   | 14  | 12  | 8   | 13             | 23                           | 1                | —                                 | 1            | 5  | 1   | 1   | 4   | 2   | 1   | 2   | 5              |
|                                            | F    | 68                           | —                | 4                                 | 2            | 1  | 2   | 4   | 2   | 6   | 5   | 9   | 33             | 21                           | —                | —                                 | 1            | —  | —   | —   | —   | —   | —   | 5   | 15             |
| 35 Suicide                                 | M    | 45                           | —                | —                                 | —            | —  | 2   | 6   | 7   | 11  | 12  | 3   | 4              | 6                            | —                | —                                 | —            | —  | —   | 1   | 2   | 1   | —   | 2   | —              |



TABLE C

| SANITARY DISTRICTS.      | Population at<br>Census, 1961. | Estimated<br>Population<br>Mid-1964. | Area<br>in<br>Acres<br>1964 | Illegitimate<br>Births | Still<br>Births. | Total<br>Live<br>Births. | Live<br>Birth<br>rate<br>per<br>1000<br>pop. | Deaths | Death-<br>rate<br>per<br>1000<br>pop. | Deaths from |            |                   |                                          |    | Deaths from<br>Principal<br>Zymotic<br>Diseases | Principal<br>Zymotic<br>Diseases<br>Death-rate | No. of<br>Deaths<br>under<br>one<br>year | Deaths<br>under<br>one year<br>to 1000<br>Births | No. of<br>Deaths<br>under<br>four<br>weeks | Deaths<br>under<br>four<br>weeks<br>to 1000<br>Births | No. of<br>Deaths<br>under<br>one<br>week | No. of<br>Deaths<br>under<br>one<br>week<br>to 1000<br>Births                                                                                                                                                                                                                                                                                                                                                                                           | Medical Officers of Health<br>and Divisional Medical<br>Officers at 31/12/64 |
|--------------------------|--------------------------------|--------------------------------------|-----------------------------|------------------------|------------------|--------------------------|----------------------------------------------|--------|---------------------------------------|-------------|------------|-------------------|------------------------------------------|----|-------------------------------------------------|------------------------------------------------|------------------------------------------|--------------------------------------------------|--------------------------------------------|-------------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
|                          |                                |                                      |                             |                        |                  |                          |                                              |        |                                       | Measles     | Diphtheria | Whooping<br>Cough | Gastritis,<br>Enteritis and<br>Diarrhoea |    |                                                 |                                                |                                          |                                                  |                                            |                                                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Column Number            | 1                              | 2                                    | 3                           | 4                      | 5                | 6                        | 7                                            | 8      | 9                                     | 10          | 11         | 12                | 13                                       | 14 | 15                                              | 16                                             | 17                                       | 18                                               | 19                                         | 20                                                    | 21                                       | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                              |
| MUNICIPAL BOROUGHS       |                                |                                      |                             |                        |                  |                          |                                              |        |                                       |             |            |                   |                                          |    |                                                 |                                                |                                          |                                                  |                                            |                                                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Altrincham               | 41104                          | 41250                                | 3477                        | 28                     | 9                | 744                      | 18.0                                         | 438    | 10.6                                  | —           | —          | —                 | 2                                        | 2  | .05                                             | 14                                             | 18.8                                     | 10                                               | 13.4                                       | 10                                                    | 13.4                                     | Dr. W. H. Parry<br>Dr. F. S. Melville<br>Dr. L. Rich<br>Dr. D. G. Crawshaw<br>Dr. T. Holme<br>Dr. W. A. Pollitt<br>Dr. A. S. Darling<br>Dr. W. R. Plews<br>Dr. E. H. Gordon<br>Dr. T. Holme                                                                                                                                                                                                                                                             |                                                                              |
| Bebington                | 52202                          | 54070                                | 12234                       | 36                     | 18               | 954                      | 17.6                                         | 632    | 11.7                                  | —           | —          | —                 | 9                                        | 9  | .17                                             | 15                                             | 15.7                                     | 11                                               | 11.5                                       | 11                                                    | 11.5                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Congleton                | 16802                          | 17400                                | 5587                        | 5                      | 5                | 344                      | 19.8                                         | 181    | 10.4                                  | —           | —          | —                 | 2                                        | 2  | .11                                             | 4                                              | 11.6                                     | 2                                                | 5.8                                        | 2                                                     | 5.8                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Crewe                    | 53394                          | 52950                                | 4386                        | 90                     | 24               | 1023                     | 19.3                                         | 616    | 11.6                                  | —           | —          | —                 | 3                                        | 3  | .06                                             | 24                                             | 23.5                                     | 14                                               | 13.7                                       | 12                                                    | 11.7                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Dukinfield               | 17318                          | 17320                                | 1725                        | 21                     | 3                | 288                      | 16.6                                         | 260    | 15.0                                  | —           | —          | —                 | 2                                        | 2  | .12                                             | 10                                             | 34.7                                     | 5                                                | 17.4                                       | 5                                                     | 17.4                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Ellesmere Port           | 44714                          | 48200                                | 9144                        | 55                     | 25               | 1125                     | 23.3                                         | 380    | 7.9                                   | —           | —          | —                 | 1                                        | 1  | .02                                             | 23                                             | 20.4                                     | 16                                               | 14.2                                       | 13                                                    | 11.6                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Hyde                     | 31710                          | 35380                                | 4170                        | 33                     | 5                | 674                      | 19.1                                         | 517    | 14.6                                  | —           | —          | —                 | 5                                        | 5  | .14                                             | 19                                             | 28.2                                     | 16                                               | 23.7                                       | 14                                                    | 20.8                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Macclesfield             | 37578                          | 38540                                | 4787                        | 52                     | 9                | 677                      | 17.6                                         | 568    | 14.7                                  | —           | —          | —                 | —                                        | —  | —                                               | 8                                              | 11.8                                     | 4                                                | 5.9                                        | 3                                                     | 4.4                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Sale                     | 51317                          | 53400                                | 3629                        | 40                     | 17               | 1064                     | 19.9                                         | 492    | 9.2                                   | —           | —          | —                 | 4                                        | 4  | .07                                             | 17                                             | 16.0                                     | 11                                               | 10.3                                       | 11                                                    | 10.3                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Stalybridge              | 21940                          | 21660                                | 3190                        | 30                     | 8                | 360                      | 16.6                                         | 294    | 13.6                                  | —           | —          | —                 | 2                                        | 2  | .09                                             | 8                                              | 22.2                                     | 4                                                | 11.1                                       | 4                                                     | 11.1                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Total Municipal Boroughs | 368079                         | 380170                               | 43185                       | 390                    | 123              | 7253                     | 19.1                                         | 4378   | 11.5                                  | —           | —          | —                 | 30                                       | 30 | .08                                             | 142                                            | 19.6                                     | 93                                               | 12.8                                       | 85                                                    | 11.7                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| URBAN DISTRICTS          |                                |                                      |                             |                        |                  |                          |                                              |        |                                       |             |            |                   |                                          |    |                                                 |                                                |                                          |                                                  |                                            |                                                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Alderley Edge            | 3618                           | 3710                                 | 702                         | 6                      | —                | 46                       | 12.4                                         | 69     | 18.6                                  | —           | —          | —                 | —                                        | —  | —                                               | —                                              | —                                        | —                                                | —                                          | —                                                     | —                                        | Dr. J. A. Leitch<br>Dr. L. Rich<br>Dr. W. R. Plews<br>Dr. W. H. Parry<br>Dr. T. W. Brindle<br>Dr. J. A. Leitch<br>Dr. W. H. Parry<br>Dr. T. W. Brindle<br>Dr. W. H. Parry<br>Dr. D. R. Morris<br>Dr. W. H. Parry<br>Dr. A. S. Darling<br>Dr. E. H. Gordon<br>Dr. T. W. Brindle<br>Dr. F. Seymour<br>Dr. R. K. Hay<br>Dr. D. R. Morris<br>Dr. F. Seymour<br>Dr. J. L. Patterson<br>Dr. L. Rich<br>Dr. J. A. Leitch<br>Dr. F. Seymour<br>Dr. D. R. Morris |                                                                              |
| Alsager                  | 7800                           | 9130                                 | 2241                        | 5                      | 6                | 194                      | 21.2                                         | 74     | 8.1                                   | —           | —          | —                 | —                                        | —  | —                                               | 2                                              | 10.3                                     | 1                                                | 5.2                                        | 1                                                     | 5.2                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Bollington               | 5642                           | 5700                                 | 1442                        | 7                      | 1                | 111                      | 19.5                                         | 98     | 17.2                                  | —           | —          | —                 | —                                        | —  | —                                               | 5                                              | 45.0                                     | 3                                                | 27.0                                       | 2                                                     | 18.0                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Bowdon                   | 4478                           | 4660                                 | 1090                        | 4                      | —                | 78                       | 16.7                                         | 64     | 13.7                                  | —           | —          | —                 | —                                        | —  | —                                               | 1                                              | 12.8                                     | —                                                | —                                          | —                                                     | —                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Bredbury & Romiley       | 21613                          | 24290                                | 4290                        | 16                     | 4                | 471                      | 19.4                                         | 241    | 9.9                                   | —           | —          | —                 | —                                        | —  | —                                               | 12                                             | 25.5                                     | 9                                                | 19.1                                       | 6                                                     | 12.7                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Cheadle & Gatley         | 45599                          | 51630                                | 5299                        | 21                     | 18               | 1109                     | 21.5                                         | 466    | 9.0                                   | —           | —          | 1                 | 5                                        | 6  | .12                                             | 22                                             | 19.8                                     | 15                                               | 13.5                                       | 13                                                    | 11.7                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Hale                     | 14800                          | 16060                                | 2264                        | 14                     | 2                | 242                      | 15.1                                         | 170    | 10.6                                  | —           | —          | —                 | 1                                        | 1  | .06                                             | 2                                              | 8.3                                      | 1                                                | 4.1                                        | 1                                                     | 4.1                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Hazel Grove and Bramhall | 29910                          | 32310                                | 5990                        | 16                     | 7                | 637                      | 19.7                                         | 312    | 9.7                                   | —           | —          | —                 | —                                        | —  | —                                               | 8                                              | 12.6                                     | 8                                                | 12.6                                       | 8                                                     | 12.6                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Hoylake                  | 32268                          | 32630                                | 5996                        | 14                     | 6                | 516                      | 15.8                                         | 418    | 12.8                                  | —           | —          | —                 | —                                        | —  | —                                               | 10                                             | 19.4                                     | 10                                               | 19.4                                       | 9                                                     | 17.4                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Knutsford                | 9389                           | 10010                                | 2485                        | 10                     | 3                | 170                      | 17.0                                         | 207    | 20.7                                  | —           | —          | —                 | —                                        | —  | —                                               | 1                                              | 5.9                                      | 1                                                | 5.9                                        | 1                                                     | 5.9                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Longdendale              | 4639                           | 4870                                 | 3545                        | 4                      | 1                | 77                       | 15.8                                         | 66     | 13.6                                  | —           | —          | —                 | —                                        | —  | —                                               | —                                              | —                                        | —                                                | —                                          | —                                                     | —                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Lymm                     | 7330                           | 7960                                 | 4241                        | 10                     | 2                | 172                      | 21.6                                         | 74     | 9.3                                   | —           | —          | —                 | —                                        | —  | —                                               | —                                              | —                                        | —                                                | —                                          | —                                                     | —                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Marple                   | 16278                          | 19920                                | 7130                        | 12                     | 5                | 389                      | 19.5                                         | 210    | 10.5                                  | —           | —          | —                 | 1                                        | 1  | .05                                             | 7                                              | 18.0                                     | —                                                | —                                          | —                                                     | —                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Middlewich               | 6833                           | 7480                                 | 1971                        | 2                      | 2                | 157                      | 21.0                                         | 102    | 13.6                                  | —           | —          | —                 | 1                                        | 1  | .13                                             | 3                                              | 19.1                                     | 6                                                | 15.4                                       | 6                                                     | 15.4                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Nantwich                 | 10454                          | 10980                                | 1177                        | 8                      | 2                | 209                      | 19.0                                         | 128    | 11.7                                  | —           | —          | —                 | —                                        | —  | —                                               | —                                              | —                                        | 2                                                | 12.7                                       | 2                                                     | 12.7                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Neston                   | 11836                          | 13980                                | 8495                        | 12                     | 1                | 317                      | 22.7                                         | 127    | 9.1                                   | —           | —          | —                 | 2                                        | 2  | .18                                             | —                                              | —                                        | —                                                | —                                          | —                                                     | —                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Northwich                | 19374                          | 19460                                | 2636                        | 15                     | 9                | 309                      | 15.9                                         | 268    | 13.8                                  | —           | —          | —                 | 4                                        | 4  | .21                                             | 6                                              | 18.9                                     | 4                                                | 12.6                                       | 4                                                     | 12.6                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Runcorn                  | 26035                          | 27170                                | 3127                        | 27                     | 8                | 534                      | 19.7                                         | 278    | 10.2                                  | —           | —          | —                 | 3                                        | 3  | .11                                             | 3                                              | 9.7                                      | 1                                                | 3.2                                        | 1                                                     | 3.2                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Sandbach                 | 9856                           | 10350                                | 3716                        | 7                      | 5                | 185                      | 17.9                                         | 139    | 13.4                                  | —           | —          | —                 | —                                        | —  | —                                               | 10                                             | 18.7                                     | 7                                                | 13.1                                       | 5                                                     | 9.4                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Wilmslow                 | 21393                          | 26700                                | 7691                        | 20                     | 7                | 527                      | 19.7                                         | 235    | 8.8                                   | —           | —          | —                 | 3                                        | 3  | .11                                             | 9                                              | 48.6                                     | 6                                                | 32.4                                       | 6                                                     | 32.4                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Winsford                 | 12738                          | 14120                                | 7094                        | 10                     | 5                | 287                      | 20.3                                         | 163    | 11.5                                  | —           | —          | —                 | 1                                        | 1  | .07                                             | 10                                             | 19.0                                     | 8                                                | 15.2                                       | 6                                                     | 11.4                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Wirral                   | 21847                          | 24060                                | 5639                        | 10                     | 5                | 453                      | 18.8                                         | 263    | 10.9                                  | —           | —          | —                 | —                                        | —  | —                                               | 8                                              | 27.9                                     | 6                                                | 20.9                                       | 5                                                     | 17.4                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Total Urban Districts    | 343730                         | 377180                               | 97405                       | 250                    | 99               | 7190                     | 19.1                                         | 4172   | 11.1                                  | —           | —          | 1                 | 23                                       | 24 | .06                                             | 125                                            | 17.4                                     | 93                                               | 12.9                                       | 79                                                    | 11.0                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| RURAL DISTRICTS          |                                |                                      |                             |                        |                  |                          |                                              |        |                                       |             |            |                   |                                          |    |                                                 |                                                |                                          |                                                  |                                            |                                                       |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Bucklow                  | 17290                          | 20500                                | 46103                       | 17                     | 8                | 384                      | 18.7                                         | 135    | 6.6                                   | —           | —          | —                 | —                                        | —  | —                                               | 7                                              | 18.2                                     | —                                                | —                                          | —                                                     | —                                        | Dr. W. H. Parry<br>Dr. W. A. Pollitt<br>Dr. L. Rich<br>Dr. T. W. Brindle<br>Dr. L. Rich<br>Dr. R. K. Hay<br>Dr. F. Seymour<br>Dr. J. L. Patterson<br>Dr. W. A. Pollitt<br>Dr. A. S. Darling                                                                                                                                                                                                                                                             |                                                                              |
| Chester                  | 28334                          | 31130                                | 43829                       | 28                     | 9                | 562                      | 18.1                                         | 429    | 13.8                                  | —           | —          | —                 | —                                        | —  | —                                               | 9                                              | 16.0                                     | 2                                                | 5.2                                        | 2                                                     | 5.2                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Congleton                | 14101                          | 15170                                | 38704                       | 7                      | 3                | 236                      | 15.6                                         | 229    | 15.1                                  | —           | —          | —                 | —                                        | —  | —                                               | 5                                              | 21.2                                     | 3                                                | 12.7                                       | 4                                                     | 7.1                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Disley                   | 3172                           | 3790                                 | 2208                        | 3                      | 4                | 65                       | 17.2                                         | 45     | 11.9                                  | —           | —          | —                 | 1                                        | 1  | .07                                             | 3                                              | 46.2                                     | 2                                                | 30.8                                       | 3                                                     | 12.7                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Macclesfield             | 23361                          | 25140                                | 72533                       | 12                     | 7                | 404                      | 16.1                                         | 239    | 9.5                                   | —           | —          | —                 | 2                                        | 2  | .08                                             | 6                                              | 14.9                                     | 3                                                | 7.4                                        | 3                                                     | 7.4                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Nantwich                 | 27666                          | 29180                                | 100844                      | 21                     | 6                | 451                      | 15.5                                         | 358    | 12.3                                  | —           | —          | —                 | 2                                        | 2  | .07                                             | 8                                              | 17.7                                     | 5                                                | 11.1                                       | 3                                                     | 6.7                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Northwich                | 39612                          | 40170                                | 57014                       | 30                     | 7                | 615                      | 15.3                                         | 396    | 9.9                                   | —           | —          | —                 | 1                                        | 1  | .02                                             | 7                                              | 11.4                                     | 6                                                | 9.8                                        | 5                                                     | 8.1                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Runcorn                  | 39950                          | 41860                                | 45552                       | 28                     | 9                | 767                      | 18.3                                         | 468    | 11.2                                  | —           | —          | —                 | 2                                        | 2  | .05                                             | 15                                             | 19.6                                     | 14                                               | 18.3                                       | 13                                                    | 16.9                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Tarvin                   | 14481                          | 15370                                | 62593                       | 8                      | 3                | 258                      | 16.8                                         | 193    | 12.6                                  | —           | —          | —                 | —                                        | —  | —                                               | 3                                              | 11.6                                     | 2                                                | 7.8                                        | 2                                                     | 7.8                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Tintwistle               | 1436                           | 1470                                 | 11855                       | —                      | —                | 26                       | 17.7                                         | 19     | 12.9                                  | —           | —          | —                 | —                                        | —  | —                                               | —                                              | —                                        | —                                                | —                                          | —                                                     | —                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Total Rural Districts    | 209403                         | 223780                               | 481235                      | 154                    | 56               | 3768                     | 16.8                                         | 2511   | 11.2                                  | —           | —          | —                 | 8                                        | 8  | .04                                             | 63                                             | 16.7                                     | 43                                               | 11.4                                       | 37                                                    | 9.8                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |
| Administrative County    | 921212                         | 981130                               | 621825                      | 794                    | 278              | 18211                    | 18.6                                         | 11061  | 11.3                                  | —           | —          | 1                 | 61                                       | 62 | .06                                             | 330                                            | 18.1                                     | 229                                              | 12.6                                       | 201                                                   | 11.0                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                              |

